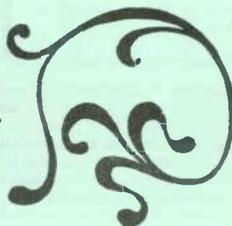
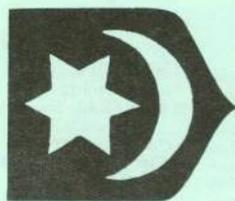
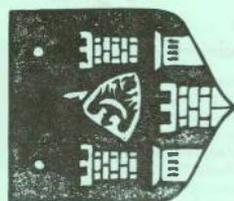


# FRENDX

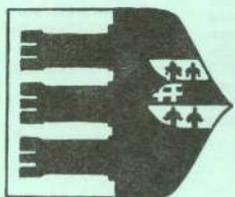
TARNÓW



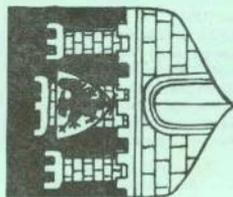
ZIELONA GÓRA



TORUŃ



WŁOCŁAWEK



ZAMOŚĆ



TARNOBRZEG



WARSZAWA

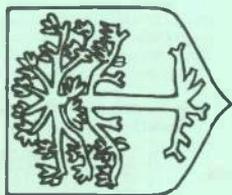


WROCŁAW



**H**eraldic  
arms  
of Polish  
Towns

WAŁBRZYCH



POLSKIE  
RADIO

1976

# UNIVERSAL SHORTWAVE

## Universal M-900



The Universal M-900 was designed for the hobbyist or maritime user who wants an affordable compact unit that copies all the basic HF transmission modes. The M-900 receives Morse code to listen to maritime coastal stations or amateur radio operators. It also decodes "regular" RTTY (Baudot) still used by many international press agencies, weather stations and aeronautical concerns. Both Sitor modes are included so you can read the vast amount of maritime and international diplomatic traffic sent in these modes. Facsimile is the transmission of pictures, charts, maps, press photos, marine information and other documents. The M-900 yields high resolution facsimile images to the printer port (not video). It operates in line mode for weather map reception and gray mode for press photos in 16 shaded levels. The M-900 can print right to left or left to right as well as positive or negative.

LED indicators include: mark [MK], space [SP], error, data, squelch [SQ] and limiter [LIM]. In the RTTY mode the six push buttons control: normal-reverse [N/R], squelch [SQ], case change [CASE], shift up [UP], shift down [DN] and unshift on space [UOS]. The status line shows the operating parameters and features a tune for max. indication. In FAX mode the six push buttons control positive-negative polarity [POL], framing [FR], start [RUN], line-gray mode [MODE], IOC [IOC] and direction. Standard print features include multiple scroll inhibit [MSI], over print inhibit [OPI], Automatic C/R & L/F and 8K print buffer. A six position DIP switch allows you to set a 40 or 80 character video line, a 16 or 22 line video page, a 50 or 60 Hz video refresh rate, high-tones or low-tones and a 9 or 24 pin printer. Power input is a 2.5 mm jack, audio input is a mini jack, video input is an RCA phono jack and the parallel printer port is a DB-25. A complete system will require the following components:

- **Universal M-900**  
The heart of the system!
- **Your Quality Shortwave Receiver**  
Must be stable and selective.
- **Power Supply 12 VDC 1 Amp Filtered**  
See #0096 this page or equivalent.
- **Video Monitor**  
Any composite video, monochromatic.  
(Not EGA, CGA, RGB, TTL or TV's)
- **Compatible Parallel Printer**  
Required for FAX mode only.  
See compatible printer from list below (#1373 \$199.95).
- **Printer Cable**  
IBM parallel type (#2427 \$19.95)
- **Audio & Video Cables**  
An audio cable to your receiver and a video cable for the monitor are required.

### RECEPTION MODES

- Morse Code with auto speed ranging.  
6 to 35 W.P.M.
- RTTY Baudot - Standard Speeds:  
45, 50, and 74 baud.  
60, 66, and 100 W.P.M.
- Sitor A - (ARQTOR, Amtor A)
- Sitor B - (FECTOR, Amtor B)  
Collective and Selective
- Facsimile (FAX) - FM  
60, 120 and 240 LPM.  
288 or 576 L.O.C.  
Line or Gray, Positive or Negative.  
Automatic or Manual  
(To Parallel Printer Port only)

### SPECIFICATIONS

Dimensions .....	9"W x 3 3/4"H x 13 1/4"D
Weight .....	5 Lbs. (7 Lbs. ship)
Power .....	12-16 VDC @ 800 ma
Audio Input .....	4 to 600 ohms 25 V p-p nominal
Printer Output .....	Parallel ASCII 8 bit Cent.
Video Output .....	Composite 75 ohms 1.5v p-p (50 or 60 Hz)

### LIMITED WARRANTY

Standard Manufacturer Warranty: 182 days  
Optional Extended Warranty To: 365 days  
Order #2897 .....\$19.00

### PRICING

M-900 List Price ..... \$599.00  
M-900 Discount Price  
Order #0936 ..... \$499.95  
Shipping/Handling/Insurance ..... \$8.00

### COMPATIBLE PRINTERS

#### M-800/900 AND M-7000

Epson FX-85	Sears SR-2000
Epson FX-86c	Star NR-15*
Epson FX-185	Printer Plus N/Q
Epson FX-286c	Seiko SL-80A1^
Epson RX-80	Seiko SP-180A1
Epson RX-100	Seiko SP-1000A
Epson LQ-500^	Seiko SP-1200A1
Epson LQ-800^	NEC N-5 or N-7
Epson LQ-850^	NEC P-5/XL or P-6
Epson LQ-1000^	Star SG-10
Epson LQ-2500^	Honeywell NP-10
Epson LX-86	IBM Proprietary 2
Epson LX-800	IBM Graphics Printer
Epson JX-80	Panasonic 1595
Dicomit 150	C.Itoh C310-CXP

(\*24 pin=best choice)

## Power Adapter

This compact 12 VDC wall adapter is perfect for the M-900. It delivers filtered 12 VDC at 1000 ma (1 amp). Features 2.5 mm plug to connect directly into the M-900 power jack. (No shipping charge on this item if ordered with the M-900).

Universal 12VDC 1 Amp Power Adapter  
Order #0096 ..... \$17.95  
Shipping/Handling/Insurance ..... \$3.00

### SYSTEM PACKAGE PRICING

Universal M-900 Converter ..... \$499.95  
Universal 12VDC Power Adptr. .... 17.95  
Magnavox BM-7652 Monitor ..... 109.95  
Video Monitor Cable ..... 2.99  
Seiko SP-1200A1 Printer ..... 199.95  
Printer Cable ..... 19.95  
Audio Cable (specify receiver) ..... 2.99  
Regular System Total ..... \$853.73  
► Special System Price ..... \$799.99  
Special System Shipping ..... \$20.00

- Visa, MC, Discover
- Prices are subject to change.
- Full catalog \$1 postpaid

### STORE HOURS

Monday - Friday 10:00-5:30  
Except Thursday 10:00-8:00  
Saturday 10:00-3:00  
Sunday -CLOSED-

Serving Listeners Since 1942!

## Universal Shortwave Radio

1280 Aida Drive Dept. FREN  
Reynoldsburg, Ohio 43068 U.S.A.  
Toll Free: 800 431-3939 Ohio: 614 866-4267



## From the Executive Director

Chuck Rippel  
1272 Parkside Place  
Virginia Beach, VA 23454  
COMPUSERV- 72571,1046

Thanks to those of you who took the time to write this month. Unfortunately, I received postcards from 2 members which I was unable to read. Please, when you do take the time to write, do it legibly. If you have the capability, send it via Compuserve. There is a link between MCI Mail and Compuserve as well. Bob Brown checks the ANARC and Pinelands bulletin boards regularly and can forward any club correspondence to me. I will be glad to try and answer any questions pertaining to NASWA, Shortwave Broadcasting, or the listening hobby in general. All members benefit when these questions and answers or your comments are printed. Please feel free to make maximum use of this opportunity.

Recently, the NASWA leadership met together in order to better plan the course of the club. Much progress was made during 12 hours of meetings held over a 3 day period.

Here are some of the highlights.

Dr. Cones announced the winner of the NASWA Logo Contest. Out of the large number of entrants, member Guy Atkins' entry was chosen as the winner. So where is the logo, you ask? In the next few months, you will be seeing some impressive changes to the *FRENDX* bulletin. The new logo will be unveiled along with our upcoming format changes. Keep your eyes open for some super developments soon and start saving your money for NASWA coffee mugs, tee shirts and perhaps sweat shirts. Yule be impressed by them!

It was further decided that NASWA would conduct a membership survey which will appear in the September *FRENDX* Journal. We really need your input! To help stimulate it, each responding member will receive a 1 month extension to their *FRENDX* subscription. Please give the questionnaire some time and thought, then mail it back to us! The information will be used to guide the NASWA leadership in future decisions. Remember, NASWA is your organization. Member input is sought, appreciated and used!

Congratulations to Bob Brown. As many of you know, Bob is an enthusiastic supporter of the Listening Hobby. Bob has tirelessly served both this club and the hobby in his capacity as a member of the Editorial Committee and a sponsor of the successful "Winter SWL Fest" and ANARC SWL net. During our recent meetings, Bob was nominated for and did accept the position of Assistant Director. Bob will not only assume a greater leadership role but he will assist our publisher, Bill Oliver, with the headquarters duties and member services. Additionally, my thanks to Gail, Bobs' wife, for her efforts on behalf of the club.

The full NASWA Graphics Committee met in a joint session with the NASWA leadership. Headed by John Bryant, AIA, the NASWA Graphics Committee is composed of graphics professionals who complement the efforts of the Editorial Committee by coordinating an overall graphics theme for the *FRENDX* Journal. With their able assistance, not only will *FRENDX* be more informative and readable, but also better looking!

NASWA was invited by ANARC to consider sponsoring ANARCON, 1990. It was the decision of the NASWA leadership to forego such an endeavor for this year in favor of directing our energy inward. We will certainly explore the possibility of sponsoring an ANARCON in the future. NASWA remains a supporter of ANARC and is considering how to better participate within ANARC's charter.

NASWA is revamping the new member package. We feel that our new member package helps set the tone of an individual member's participation within the club and the hobby. With that in mind, member Vern Hyson of Charlotte, N.C. is in the process of reworking the new member package. A hobby enthusiast of over 20 years, Vern is working with the NASWA leadership to provide new members an informative package to help them get the most out of their listening efforts.

The Editorial Committee has also been busy. It was decided that *FRENDX* badly needed a new members column. Bob Brown will be editing this new column. A membership "application" will be adopted to include some personal information about each new member. Executive Council member Don Jensen remarked that he "never ceases to be amazed by the diversity of hobby enthusiasts." We feel that members will be equally amazed; thus, the new members column.

That's all for this month, how 'bout some input from the membership?

---

A few notes from Bob Brown -

I've never been too shy when it comes to speaking my mind so I'll take this opportunity. First off I'd like to say that I am honored to be Assistant Director of NASWA. We have a top notch group of dedicated folks all working toward a common goal of making NASWA the best Shortwave club in North America. Two key words describing how we perceive the direction of the club are "education" and "information". Members belong to NASWA for a number of reasons but I think the major reason lies somewhere in these key words.

Our editors are doing a great job putting together the journal each month. Membership contributions keep our editors busy and the club healthy. I personally want to see NASWA become more "member" oriented rather than just another shortwave bulletin. I hope to provide suggestions as to how we can make that happen. I am sure that our upcoming membership survey will provide us with some key insights as to how you feel about your club.

NASWA membership continues to grow. I believe we have a lot of hidden talent out there. Recently, Chuck asked for volunteers to act as assistants to the editors. He received 2 responses. Not exactly a stampede, but a start. We will be evaluating where to best utilize these individuals over the next month or so. Yes, we are still looking and if you are so inclined to participate in this capacity please contact Dr. Harold Cones. You can find his address on the back cover. Because of the direction we are heading, a prerequisite for new editors will be a computer with modem capabilities.

Another area I would like to see member participation in is tips and techniques. If you have the inclination to write, whether it's an article or just a paragraph, how about submitting it to the club?

I'm excited about the future of NASWA. We have a strong membership and a great team at the helm. Let us know what you think.

---

FOR SALE: Panasonic RF-B300 SW receiver. Works like new except the light is out. Price \$140.00. ALSO: Sony 2001 SW receiver. Works good except light stays on. Price \$0.00. Jim Streitmatter, 1515 Miami, Apt. 1, South Bend, IN 46613. Phone (219) 287-2098.

FOR SALE: ICOM R71A with sharper FL-44 filter and modification to allow passband in AM. Clean and well-cared for with original box and special manuals. Price \$675.00 plus postage or trade for R70 and \$300.00. Fritz Mellberg, 1505 Central Avenue, Hawarden, IA 51023. Phone (712) 552-2458 evenings except Tuesday.

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to over 435 WRTH-89 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances, ITU Country Codes included. Send your location/coordinates. Price \$6.25. WRTH-87, \$8.50. Gilfer Confidential Frequency List and Guide to RTTY Frequencies #6, \$5.00. All items include shipping. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398, not collect.

# DX'ers Forum

*Dedicated to Furthering  
the Art, Science and  
Enjoyment of DX'ing*

*Conducted by Rowland Archer, 5524 Hawthorne Park, Raleigh, NC 27613*

*September, 1989*

**S**eptember marks the traditional beginning of the DX season in North America, so if you've been shying away from the tropical bands for the last few months due to static now's the time to get back into the swing of things. Here on the East Coast the usual signs that we've turned the corner include a very noticeable increase in strength of the late afternoon Africans and the early morning Indonesian and Papua New Guinea stations.

One of my few gripes about the NRD-515 receiver is its extremely touchy RIT control ("Receiver Incremental Tuning", a fine tuning adjustment). You need a safe-cracker's fingers to achieve zero-beat when tuning in ECSSB mode. (For a complete explanation of ECSSB tuning see Kevin Atkins' excellent article in last January's DX'ers Forum). I recently discovered that Universal Shortwave will install a 10-turn potentiometer in the NRD-515 for \$69 which replaces the original control and makes zero-beating easy. With a 10-turn pot, instead of having a single turn cover the total range of the control, 10 turns covers the same range. This means that if zero-beat with the one-turn pot meant getting the control set within 1 degree of arc, you now have 10 degrees to achieve zero beat.

**Greenland, one more time: This Really Happened Dept.** If you've been following the last few months of DX'ers Forum articles on the Kalaallit Nunaata Radioa story, you're aware of John Bryant's frustration in trying to QSL this station. It was the mention of John's call to the station to try and get a QSL that resulted in a local newspaper story about all the unanswered reception reports sitting at the station. Well, on returning to his home in Stillwater, OK after a recent vacation/DXpedition to the Pacific Northwest, John was overjoyed to find that coveted, large white envelope from Greenland in his mailbox. He went through the usual "fingers trembling from excitement tear open the envelope routine," and shook out his prize, the famous KNR Station Building QSL. Admiring his new VIC, he turned it over to read the inscription: *Dear Terry Palmersheim, we are pleased...*

This month's feature stories are the conclusion of my piece on DXing Brazil from inside that fascinating country, and the first part of the story of the Scottish pirate station that's been so much in the DX news lately, Weekend Music Radio. After reading this you'll have to agree that the staff of WMR really works to bring us Scotland via SW!

## DXing Brazil from Brasil — Part II

*by Rowland Archer*

*A recent business and vacation trip to Brazil afforded me my first opportunity for some on-location LA DXing. Last month, Part I of this story covered the first few days, spent in Rio de Janeiro. This month we continue on to Brasilia, Iguassu Falls and Sao Paulo.*

### LANGUAGE NOTES

Before I visited Brazil, my only exposure to Portuguese (abbreviated PT for the rest of this article) was what I heard on the radio. The vast majority of that was from listening to weak tropical band stations, often at a level which made it

difficult to even be sure *what* language I was listening to.

Ten days in Brazil helped me to get a much better feeling for the language than hundreds of hours of straining against the static. I'm still a rank beginner at PT, but let me pass along a few tips that may help other DX'ers struggling with the language.

There are many similarities between Spanish (SP) and PT, but the languages are different enough that familiarity with SP can almost be a liability when trying to decipher an ID spoken in PT. Many PT words are spelled similarly to their

SP counterparts but pronounced differently. For example, "good morning" is spelled "*bom dia*," and pronounced "bone JEE-a". "Good night" is "*boa noite*," pronounced "BOH-a NOY-tay." "Yes" is spelled "*sim*," pronounced "seeng." "Radio" is pronounced "HAH-jo".

One of the primary challenges of DXing is to listen to lots of speech in a language you have only a little knowledge of, and be able to pick out ID's and program details. If you're not *sure* how something is pronounced, this task becomes even more difficult. When I'm listening for an ID or some program details, I keep in mind several key words and phrases, such as ID text found in a bulletin or reference, the station name, city of location, and some product names. If I'm pretty confident of the pronunciation of these words, I can relax and my mind will filter through lots of words I don't understand but still "trigger" when I hear one of the words I'm searching for. If I'm not sure of the pronunciation, I have to work a lot harder, constantly testing the words I hear against possible pronunciations of my hit list.

One way to improve your knowledge of PT pronunciation is to listen to the PT broadcasts from Radio Bras in the international bands, or some of the stronger Brazilians in the tropical bands. Be aware that Brazilian PT is pronounced somewhat differently than the PT spoken in Portugal, Angola or Mozambique.

## PRODUCTS = PROGRAM DETAILS

Whether you're submitting loggings to FRENDX or writing reception reports to the station, good program details can add enormously to the value of your effort. Some of the best program details are verbatim ID texts and the names of products or services advertised on the station. Let me share a few of the more commonly heard product names with you.

Two major soft drink and beer companies in Brazil are Antarctica and Brahma. Beer is "*cerveja*," pronounced "sir-VAY-jah". Draft beer is "*chopp*," pronounced "SHOWP". A popular soft drink made from a fruit found in the Amazon is "*guarana*," pronounced "gwah-ra-NAH." Guarana is bottled by both Antarctica and Brahma. Coffee is "*cafe*," pronounced "kah-FAY". I heard frequent ads for supermarkets, called a "*supermercado*" and pronounced "soo-per-mer-KAH-doo".

About 1/3 of the cars in Brazil run on alcohol, so ads for filling stations will often refer to "*alcool*," pronounced "AL-kool", as well as "*gasolina*," pronounced "gaz-o-LEE-nah". You may hear

ads for the "Petro Bras" filling stations. The best-selling car in Brazil is Volkswagen.

A bank is a "*banco*," pronounced "BAHN-ko". Frequently the word "*caixa*," pronounced "KAY-sha" (where KAY rhymes with "EYE"), appears in a bank name, such as "*Caixa Economica Federal*."

## STATE NAMES

Another very useful identification clue is the state name. While these don't constitute positive identification, they are valid pieces of the puzzle. Ads and news items will often mention local or nearby state and city names.

You should also get familiar with the district names within the larger cities. Tourist guidebooks contain a wealth of local place names for DXers hungry for good program details. For example, if you are listening to a station which may be in Rio de Janeiro, look Rio up in the guidebook and note some of the major plaza or district names. You are very likely to hear names like "*Ipanema*" and "*Leblon*" mentioned over the air. The names you want to remember are often written in boldface or constitute paragraph headings in the guides, making it easy to pick them out of the text.

## BRASILIA

After three days in Rio we took a one-day side trip to Brasilia, the capitol of Brazil. Brasilia is the realization of the vision of Juscelino Kubitschek, the President of Brazil in the late 50's. At that time, most of the population of Brazil inhabited the coastal regions, and Kubitschek saw the vast sparsely populated interior of the country as the opportunity for the future. In a bold move to stimulate the "Interiorization" of Brazil, he declared that a new city would be built in the center of the country, and the capitol would move there from Rio de Janeiro. Lucio Costa developed the original city plan, and Oscar Niemeyer designed many of the most striking buildings, with dramatic curves and surrounded by pools and fountains.

Everyone has their own personal reaction to Brasilia, some very favorable, some negative, but few neutral. For me, it was an other-worldly feeling place, strangely empty, ordered, and quiet. Perhaps it is so planned-out and designed that it lacks the vibrancy and liveliness of a city that grew in a haphazard fashion. Yet it is striking and fascinating, and I will never forget my visit there, the beautiful architecture, or the feelings it evoked.

## IGUASSU FALLS

Iguassu Falls is five times bigger than Niagara Falls. Eleanor Roosevelt, on first seeing Iguassu, is said to have exclaimed "This makes Niagara Falls look like a kitchen faucet!" Well, Niagara still looks like more than a kitchen faucet to me, but Iguassu with its more than 275 separate waterfalls is another experience I'll never forget.

Iguassu is located on the border between Argentina and Brazil, very close to Paraguay. You can take a bus tour over to the "other side" to get a different view of the falls. Definitely recommended, as the view is quite different from the top of the falls on the Argentine side and the bottom on the Brazilian side. An interesting side-note about the politics of the region: on entering Argentina, the border guards flipped through the stack of passports and pulled the one from a UK visitor, and came on the bus waving it — that unfortunate soul had to pay \$10 for a visa, everyone else passed without one! The map at the border crossing still proudly proclaims "*Islas Malvinas*"...

Iguassu was by far the quietest location from a DX viewpoint, although it was also farther away from the major concentrations of Brazilian stations than any other place I visited. This may explain the relatively uneventful DXing I enjoyed there; the bands were quiet in more ways than one.

After setting up the Sony 2001D (the foreign equivalent of the 2010 portable), my "hang-it-around-the-window" 20 foot wire, and the MFJ RF preamp, I quickly found Radio Guaiiba, Puerto Alegre, booming in at SIO 555 on 6000 kHz. Their programming featured a mellow easy listening format, only interrupted at 2130 by an political advertisement for the next day's presidential election in Argentina. I heard two full ID's in 30 minutes of listening.

I spent a couple of minutes on two tentative Bolivians, Radio Santa Ana on 4649 and La Voz del Tropico, 4747.4. I mention them here only to quell any suspicion of North Americans that South American stations must all boom in if you're in South America. Both these stations were weak and fadey, and since I was there to hear Brazilians, I quickly moved on.

4755 kHz yielded Radio Educacao Rural, in Campo Grande, at SIO 433. Full ID's were played at 0038 and 0059, plus quick ID's at 0013 and 0027.

Radio Difusora, Londrina, on 4815, was another SIO 555 logging. Radio Difusora, Aquidauana,

on 4795, had a program of US and British pops at 0110.

## SAO PAULO

Flying into Sao Paulo is truly impressive. It's the largest city in South America, with a population of almost 14 million. From the air it seems to go on forever. You can imagine the lump in my throat when the taxi driver asked us in PT (he didn't speak any English) how to get to our hotel! Fortunately he was able to flag down another driver and get directions, and we got there with only one "circle the block" maneuver at the end of the ride.

We stayed in the Hotel Nikkey, an excellent four star hotel in the Asian (mostly Japanese) district of Sao Paulo, called the *Liberdade* district. This area is home to over 500,000 Japanese, and has much the feel of a Japanese city — with one big exception — most of the residents speak Portuguese, which takes you by surprise if you're used to being around Japanese nationals who speak Japanese. This may be the only place in the world where the menus in the restaurants are in Japanese and Portuguese!

I expected very poor DX from the combination of staying in a concrete high rise hotel, plus being in the middle of such a huge city. Nothing could have been further from the truth! The bands were hotter here than anywhere else on our trip. Even the 90 meter band was in good shape. The 49 meter band and up were full of stations all day long. I attribute all this activity to the large number of shortwave stations located near and in Sao Paulo. This was the one place in my travels where you could tune up the 60 and 49 meter band and hear one Brazilian station after another, almost all coming in at or near local level.

Last month's article included a list of the loggings made during my trip. All the ones on May 15-16 were from Sao Paulo.

Our ten day visit went all too quickly and it was soon time to get back to the airport for the long plane ride home. Did I tell you about Brazil's aggressive drivers? After asking when our flight left, our taxi driver, who looked to be in his late sixties at least, pulled over on the way to the airport and fastened his seatbelt. I was prepared for a reenactment of the car chase scene from *Bullitt!* Fortunately the drivers are as competent as they are aggressive, and we returned to the States in one piece!

• • •

# Scotland's Only SWBC Station: Weekend Music Radio — Part I

by Jack Russel

*There has been a lot of activity recently from Weekend Music Radio in Scotland. I believe it enhances DXing to know something about what's going on on the other side of the mike, and the trials and tribulations that went into launching Weekend Music Radio make quite a story. In addition, hearing WMR is a great way to improve your QRP totals for Europe for the NASWA QRP awards. WMR is a fine verifier, and Scotland counts as a separate NASWA country. You can send reports to 42 Arran Close, Cambridge, England.*

Well, here we are in August 1989 and WMR is still active, and at the time of printing the only station on SW to broadcast from Scotland, except that is for the utility stations. Who would have thought in the early days of the life of this station in 1979 that 9 years later the station would still be broadcasting. This article is to give you an insight into the running of this station over the years.

WMR was the brainchild of Dave Anderson, after running Radio Mercury with Stuart Clarke in 1978-79, with one transmitter on from England on one Sunday and the Scottish one on the other Sunday of the month. Radio Mercury in Scotland was nearly raided in the beginning of 1979 at Dave Anderson's house, and but for the GPO being stuck in fairly deep snow the end would have been then for the little original WMR 20 watt transmitter, but it still survives to this day.

While Stuart Clarke went on to help at other operations, ABC International, Zodiac, etc., Dave was left on his own. He had been in recent contact with two local fellows Jack Russel and Mike James. It was decided by the threesome that a new start would be made, but this time there would be no house-based transmissions for security reasons, and transmissions would be taped in advance and broadcast from a mobile site in a wood somewhere. If the Post Office paid us a visit they would only take our transmitter and cassette machine, saving us court costs which neither of us could afford.

So an inverter was purchased, and WMR was set to take to the air. The first transmission actually took place, by the time things were organised, on 6th January 1980, from Dave Anderson's house. It was merely to test the transmitter and check all our equipment was working properly and did not need any attention. Our technical knowledge in those days was somewhat limited. Yet despite the relatively short time the station was on the air, around 10 minutes or so, suspicious activity by local police in the immediate area of the transmitter resulted in a very short transmission on 7337 kHz heard as far as we are aware only by our Swedish DJ Mark Jam. The first full broadcast was planned for 3rd February 1980.

Programmes were pre-recorded the night before in Arctic conditions, and that was inside. The whole area was under a blanket of snow and then fröze, so the temperatures were well below zero, but undeterred the three set off at 0630 on the Sunday morning to look for a site. We still hadn't any organised site at this time. One was found after a half-hours drive, and an antenna

## WEEKEND MUSIC RADIO QSL

EVERY — SUNDAY ON 48/41m SHORT WAVE

DEAR ~~From Arran~~ THE STAFF OF WMR CONFIRMS YOUR REPORT OF:

DATE 25.12.88

TIME 02.14.10Z UTC

FREQ: 6.517-6

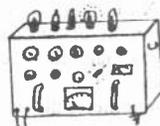
SINPO: 34433

POWER 100W

THANKS FOR YOUR REPORT.

PLEASE WRITE AGAIN.

SIGNED: *Jack Russel*



42 ARRAN CLOSE  
CAMBRIDGE  
ENGLAND

erected with some discomfort due to the frost. The wood we chose was a quite unsuitable pine forest with fairly young trees, and thus only a low antenna could be erected. Because there was snow on the ground, there were hidden small rivers, burns, streams, and call them what you like they were all very cold and wet. When we stood on what looked like the snow on the rest of the ground, down we went.

By the time we had the antenna up as high as possible, Dave, being the tallest of the team, could touch the cable!! It was time to tune up and check the transmitter. But it was soon discovered that the oscillator valve, at that time a 6CH6, was missing!! We searched the wooded area and Mike James' infamous Simca, but it was nowhere to be found. In the end we had to abandon ship, and got back to the house in time to hear James Racocey opening up ABC International on 6235 kHz. In the free Radio press and DX publications, we had had some advance publicity, and by this time we were beginning to sound like the return of Caroline, or NDXE.

Undeterred, we tried again on the 20th April, and this was from a site nearer to Jack Russel's QTH, which was to become a reliable site for more than a year, but not that day. The inverter was connected in reverse by Dave and actually caught fire! Back at Jack's studio the thing again caught fire and this time we were resigned to monitoring a Dutch station on 7350 kHz, Radio Victoria, and Radio Casanova, a refugee from 227m, on 6290 kHz with a terrible hum on the carrier, but otherwise good modulation.

The following weekend, we had to come on the air, too many failures, but the free radio press were still talking about that station from Scotland. Wild horses were not to stop our transmissions and from Jack Russel's house the broadcast went out using a mains power supply, and with our 7335 kHz crystal (which still operates on 7337kHz), we hit the air around 0915 with non-stop music and WMR jingles, which we acquired on the cheap. At 0930 we broadcast a multilingual station identification by Karen, our Dutch DJ, and Dave Anderson again opened the station, but this time we *were* on the air. The transmissions lasted until 1100 when we signed off the 7337 kHz freq, announced as 7330. There had been a 60 minute Dave Anderson programme and a 30 minute Mike James programme. Jack Russel at this time had no real intention of going on the air except during the other programmes during links.

For a little while the bands were monitored and it was decided to put out some nonstop music on 6261 kHz around 1130 for a short time. This was loaded into a 41m antenna, resulting in the effective modulated power being no more than about 5W. However, a few reports were also received for this test on 48m. The result was over 60 letters from all over Western Europe and the DDR for that broadcast, on the 27th April 1980, the first real test transmission from Weekend Music Radio.

The decided schedule for the station was to be the second Sunday of the month. The next broadcast of the station took place on 8th June 1980. This was a very wet June morning when the antenna was erected at the aforementioned mobile site as of 20th April. When we had the station on the air, it was C120 tapes which of course lasted an hour per side, and during that hour we flew to the studio at Jack's to tune around as well as to monitor the signal away from the hands of the authorities if they did appear. When the time had come for the third hour the car batteries supplying the 12 volts to step the now repaired inverter up to 400V were beginning to run down, the rig was going on and off. We well remember Dave and Jack crawling through the woods via a different and very long way round to check things were OK.

Things were OK and on the 30th June we had only had a couple of transmissions, but even so we were well reputed and had got ourselves into a network on 7340 kHz: Radio Impact, Weekend Music Radio, and Radio Free City, a now infamous Edinburgh station which decided to give SW a try. So on June 30th WMR successfully relayed programmes from our counterparts at Radio Impact and Radio Free City both an hour. This never did come off again as by the time the next fifth Sunday came along Radio Free City had been raided and Radio Impact had disappeared never to be heard again. So WMR had redeemed its reputation by successfully relaying the other stations and a good number of letters were coming in for the said broadcast. The Radio Free City transmission on the same date had a gap between WMR and a retune of the transmitter to try to make the authorities believe the transmitter site was being switched, when in fact it was still WMR in reality.



# Easy Listening

Editor: Alex Batman, 300 Hill St., Apt. 6, Boone, NC 28607

"Easy Listening" will be a bit different this month. When I originally designed the column format, I'm afraid I overlooked the fact that not all shortwave broadcasters are concerned over whether their programming format fits the column design. Although most shortwave broadcasters design their programming so that the same program airs at the same time on a weekly, bi-weekly, fortnightly, or even daily basis, there are a couple of notable exceptions to this, namely Radio Budapest and the United Arab Emirates Radio in Dubai. So this month, I thought I'd take time out from the usual structure to examine those two stations. It's something I've been meaning to do for some time.

## Radio Budapest

Actually, Radio Budapest does have three scheduled programs that appear on a weekly basis. "Sportorama," which examines the Hungarian and international sports scene, airs on Monday nights (at 2340 and 0040 approximately); "From the Hungarian Weeklies," which examines the articles and editorials in the Hungarian Weekly press, airs on Wednesdays (also at 2340, 0040 approximately); and "168 Hours," a run-down of the week's events in Hungary, airs on Fridays (also at 2340, 0040). But these are the only regularly scheduled weekly programs on the station.

Radio Budapest broadcasts to North America at 2330-0000 and from 0030-0100, the second broadcast being a repeat of the first. On Sundays the 2330 broadcast is not scheduled. Many of Radio Budapest's regularly scheduled programs are aired several times a month rather than once a week, so that one month a program such as "Magazine 90" might be on Tuesday and Saturday and next month it might be on Monday and Thursday and Wednesday. Such a scheme gives your friendly, neighborhood column editor a headache to say the least. It is also difficult to tell when a favorite program is likely to be on unless you have a monthly schedule from the station in advance. Despite the scheduling drawbacks, "Magazine 90" is not a bad program. It features brief tidbits of life in Hungary, answers listeners questions, and plays Hungarian pop music, all within the framework that each separate segment lasts no more than 90 seconds (hence the title). "Business Partners," another monthly program from Radio Budapest, is a run-down of items of economic interest both in Hungary and abroad.

There are, however, two other predictable programs on Radio Budapest, and they are: "International News Room" which opens every half-hour of transmission, and a special broadcast of "Calling DX-ers" which airs at 0130-0145 on Mondays and Thursdays. Actually, "International News Room" seems somewhat of a misnomer since most of the stories are about Hungary with only one or two stories of international interest. The first five minutes is devoted to the news, and the second five minutes devoted to one or two editorials or other political commentary. As for "Calling DX-ers," it is not all that bad a DX-program. Although there are no items of general interest to radio buffs (like a discussion of satellite transmissions, equipment reviews, etc), there are plenty of DX tips sent in from Radio Budapest listeners. I don't know how Tom Lakowski rated the program when he did his series of DX program reviews last fall, but I'd give it at least a C+ or a B-.

Finally on Radio Budapest, there are the ad hoc features that are sometimes repeated during the same month but not afterwards. Some of these have included analysis of President Bush's visit to Hungary and Poland, a feature on "America House," a projected American cultural center in Budapest, discussion of financial topics, and interviews with artists and writers, etc.

All in all, Radio Budapest is an interesting station, though the quality is sometimes uneven. It may not rank with the BBC, Radio Netherlands, or Deutsche Welle, but it can be rewarding to listen to from time to time.

Frequencies are : 9.520 // 9.585 // 9.835 // 11.910 // 15.160.

## United Arab Emirates Radio (Dubai)

U.A.E. Radio broadcasts to North America at 0330 on 11.940 // 15.435 // 15.555 and 17.890 until approximately 0355. The first ten minutes of the broadcast are news, quite well produced. Although it quite naturally covers a lot of stories from the Middle-East, it also covers a variety of stories of international or global interest as well and very little, if any at all, about the United Arab Emirates (one of its weaknesses, actually). The wide global range of the news makes it perfectly suited for those busybodies among us who like to know what's going on everywhere.

After the news, the station airs its documentary series for fifteen minutes. The reason this station doesn't fit into the usual column format is that the series is aired nightly from beginning to end, and when one series ends, a new one begins. Some of the older series I remember from two to three years ago include "Follow the Wind," (a history of music through out the world), "Women and Islam" (an overview of the woman's position in Islamic religion—which, as was pointed out, is somewhat different than that of the woman's position in Arab society), and "Arabic Music" (a more narrow analysis of traditional Arabic music). More recently the documentaries I've made note of have been "Perspective of Learning in the Koran" and the "The Arts and Crafts of Islam". "Perspectives of Learning" examined what the Koran has to say about such things as friendship, parenthood, courage, honesty, etc. "The Arts and Crafts of Islam" examines what are often called the minor arts, such as metal work, jewelry, oriental carpets, and Arabic dress and embroidery. All of these programs are thoroughly researched, entertaining, and provide a wealth of information about their subjects.

My only objection to the current series is the "hokey" presentation, a dramatization of the discussion in which three people, two men and one woman, discuss the subject at hand. The problem with such a presentation is that at one moment one of the characters might ask a vary basic question and to which a second character can only respond, "that's right, Wallid, and also..." Although the attempt is to save the listener from a certain amount of dryness, a straightforward presentation read by the three voices might actually work better. Nevertheless, the documentaries are usually still good despite their flaws, and as I've said, provide the listener with a wealth of information.

United Arab Emirates Radio is one of those pleasant surprises. It might not sound all that interesting when described, but give it a chance. It's one of the better programs on shortwave—again, not a BBC or a VOA, but still quite good.

\* \* \*

### A NEW LOGO FOR THE NORTH AMERICAN SHORTWAVE ASSOCIATION

The results of the NASWA logo contest have been tabulated. Twenty-two entries were received and judged by the Jury of Jerry Berg, Glen Hauser, John Herkimer, Don Jensen, Bill Oliver and Chuck Rippel. The winning entry was designed by Guy Atkins of Issaquah, WA, who received a Sony ICF-7601 shortwave portable contributed by Universal Shortwave. Second place was awarded to Trent Clark of Stillwater, OK, who received "DXing with the Experts", contributed by Tiare Publications. The third place winner, David Johnson of Stillwater, OK, will receive "Fine Tuning's Proceedings 1989", contributed by Fine Tuning.



Harold Cones for the  
*FRENDX* Editorial Committee



space tone is 2125 Hz, and the mark tone is higher, depending on the "shift" used (more on shift in a moment). The result is that an RTTY signal sounds something like "deedle-deedle". And although you don't need anything special to hear this signal, you will need something besides a receiver to *decode* the signal.

## THE RIGHT STUFF

Until recently you would need a surplus Teletype machine (along with a concrete slab to support it), as well as a "Terminal Unit" to copy RTTY signals. Fortunately the microprocessor chip made it possible to shrink the size, complexity, and cost of receiving RTTY. Many companies sell dedicated and add-on units to be used with a personal computer. For as little as \$65 you can turn a IBM, Macintosh, or Commodore computer and your shortwave receiver into an RTTY reception station.

Earlier I mentioned the term "Terminal Unit." The original Teletype machines, as well as those which followed, were designed for wire line use. The signals produced by one machine were sent (hopefully) unchanged to other machines. No conversion was necessary, because everyone followed the Baudot Code system. This isn't the case on with Radio Teletype, however. As described earlier, the mark and space signals are converted to two different tones. The Teletype machine cannot recognize these tones by itself. You must insert a "Terminal Unit" or "TU" between your receiver and the Teletype machine. But you have a computer, you say? The same hold true for your computer, but the TU will be slightly different. The old TU's converted the audio frequencies to variations in current - they were, in fact, a variable current supply operating around 20 ma. or 60 ma.. A computer TU converts the audio tones into binary levels (ones and zeros), and a software program translates the binary signals back into the characters which were originally sent. You then see the text displayed on your video monitor, or in some cases printed by your printer.

## SPEED AND SHIFT

Simple TU's allow you to receive basic, uncoded RTTY signals, perhaps allowing you to adjust for different speeds and shifts used in sending. What are speeds and shifts? Various "services" such as amateur radio, press services, and military stations, send their messages at different speeds (see Table 1). The speed relates to how many words can be sent in one minute (WPM), with a "word" being five characters. "Baud" is similar, but relates to how many marks and spaces are sent per second. What is shift? Remember that the mark and space tones are two different frequencies. How close they are determines the shift. For example, if a space tone is 2125 Hz, and a mark tone is 2295 Hz, the shift is the difference between the tones, or 170 Hz. In some cases, the mark and space tones are reversed, but most TU's have a switch to compensate for this.

More elaborate TU's also have built-in tuning indicators (See Figure 1). the tuning indicator allows you to not only fine tune the signal you wish to receive, but also to determine the shift being used. Finding the speed is simply a matter of trial and error. The computer's software manually or automatically steps through the common speeds until intelligible copy is received.

## PEACHES AND CREAM

Receiving Teletype is not all peaches and cream. It requires some patience and skill derived from practice. Why? Well, in addition to having to worry about speeds and shifts, careful tuning and a very stable receiver is needed. If your receiver drifts a half a kilohertz (500 Hz) in half an hour, you won't be able to copy a signal whose shift is only 170 Hz. Added to this are the numerous stations which utilize special coding schemes in their signals. This isn't always done to prevent interception of their signals; it is often used to overcome the background noise that leads to lost data. Many amateur radio operators use a system known as AMTOR (Amateur Teleprinting Over Radio), similar to the SITOR™ systems used by marine stations. Both of these systems have the built-in capacity to verify correct reception, and trigger automatic retransmission of characters if necessary. More elaborate TU 's and software have the provision for recognizing and decoding the AMTOR and SITOR systems. They may also have provisions for decoding the signals which *are* encoded for secrecy, such as the bit inversion scheme.

## OUT OF REACH

It's only fair to warn you: some stations are totally beyond our ability to copy. Many (but not all) military RTTY signals, as well as messages bundled together in a multiplexed system, cannot be copied without very sophisticated hardware, and code keys. Fortunately there are many more signals you can copy than those you cannot.

## WHERE TO TURN

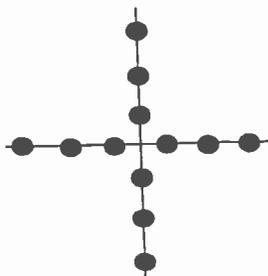
Most shortwave and amateur radio magazines carry advertisements for RTTY books and equipment. I urge you to get your feet wet. You've been missing a large chunk of fascinating signals if you haven't been listening to RTTY!

SPEED	WHERE USED
45 Baud/60 WPM	amateur radio, some news services
50 Baud/66 WPM	news services, most commercial stations
57 Baud/75 WPM	military stations, some commercial stations
74 Baud/100 WPM	military stations

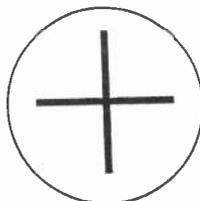
Table 1. Common Speeds and Utilization

SHIFT	WHERE USED
170 Hz	Primarily amateur radio
425 Hz	news services, most commercial stations
850 Hz	military, some marine and aeronautical

Table 2. Common Shifts and Utilization



LED "Cross-Fire" Display



Oscilloscope Display

Figure 1. Tuning Displays

Product Review  
by  
Rich Arland K7YHA

In my travels with the company I work for, I always take along a portable SW receiver to make the time go by a little faster. Plus there is always a chance that I'll bag Tristin da Chuna World Service or Falkland Islands Broadcasting Service from my motel room!!

Up until recently I had packed the Sony 2010, Datong FL-3 audio filter and an active antenna on these trips. This system worked very well and I have spent many enjoyable hours tuning the SW & ham bands. Recently, I discovered the Sangean MS-103 portable SW receiver. This little gem is a VERY small Shortwave receiver which also tunes the AM and FM broadcast stations. The MS-103 measures a scant 3.24 X 5.5 X 1.25 inches. It boasts 12 bands (10 of which are SW bands) along with AM and FM coverage. The small size and good frequency coverage combine to make the MS-103 a logical choice for the traveling SWL.

Frequency coverage is as follows:

FM	87.5 - 108	MHz
MW	530 - 1605	KHz
SW1	2.30 - 5.20	MHz
SW2	5.85 - 6.20	MHz
SW3	7.05 - 7.45	MHz
SW4	9.45 - 9.90	MHz
SW5	11.60 - 12.10	MHz
SW6	13.55 - 13.85	MHz
SW7	15.10 - 15.60	MHz
SW8	17.45 - 17.90	MHz
SW9	21.45 - 21.85	MHz
SW10	25.67 - 26.10	MHz

As I'm sure you've noticed, the MS-103 is NOT a full coverage SW receiver. Covering only selected SW broadcast bands has some advantages. Since the slide rule dial is rather small, limited SW band coverage is a boon since it makes for easier tuning within the desired band. One obvious disadvantage is that there are some frequencies that are left out of the coverage and cannot be tuned. For the utility and ham bands only DXer this restricted frequency coverage and lack of a BFO (for CW/SSB reception) makes the MS-103 a poor choice.

The MS-103 is primarily designed with the traveling SW Listener in mind. It is NOT a DXers radio by any means. This is not to say that the occasional rare DX station cannot be logged using the MS-103. Rather, the little radio is much better suited for listening to the major international broadcasters. Of course the price difference between the MS-103 (about \$115) and a Sony 2010 (about \$350) says a lot. Obviously features like digital readout, multiple memories, memory scanning, BFO, selectable IF filters, etc, present on a table top or portable top-of-the-line SW receiver, are not going to be present on the MS-103. Conversely, you are not going to be able to stick an Icom R-71A or Sony 2010 in your shirt pocket, either!!

How does the MS-103 perform? That is a rather subjective question, given that if you take 10 SW enthusiasts and give them a radio, you'll end up with 10 separate opinions on how the radio performs. With that in mind, here is my opinion of the tiny MS-103.

The size vs. performance is remarkable. AM & FM broadcast performance is very good. FM stereo is available using the earphone set supplied with the radio. These earphones are the "hang-in-the-ear" type and take up very little room in the carrying case. Audio quality with the earphones is quite pleasing. Audio quality using the radio's built in 2 inch speaker is adequate. Audio output is about 120mV @ 8 Ohms.

Tuning on AM & FM is non-critical. The tuning and volume controls are rather small (.75 inch for the tuning knob and .5 inch for the volume knob) and are located one above the other on the right side of the MS-103. Tuning on the SW bands requires finesse. There is some backlash in the tuning dial, therefore, it is easy to overshoot a SW station. If care is taken, it is relatively easy to tune the international SW broadcasters with the small tuning knob. The word here is "slow". Tune very slowly and you won't have a problem.

Dial accuracy leaves a bit to be desired, especially after using a digital readout receiver. The various bands are non-linear in their tuning ranges but, again, CAREFUL tuning is the key here. If you know that BBC is on 6175 KHZ then careful tuning just below 6200 KHZ will turn up BBC World Service. Dial accuracy is not the best, but with care, it is plenty accurate for hearing the major SW broadcasters.

The only really objectionable trait of this tiny SW receiver is the presence of AM stations occasionally appearing on a SW band. These "image stations" are annoying but, so far, have not gotten in the way of my enjoyment of the receiver. These images are most probably the result of using a single "receiver-on-a-chip" IC and inadequate IF selectivity. In all fairness, the problem cleared up when I took the MS-103 on a camping trip well away from the RF saturated Wyoming Valley. While the purist might turn his nose up at this receiver for the presence of images on the SW bands, I do not find it all that objectionable.

The receiver runs on two "AA" cells that live in the bottom of the chassis. The initial batteries that I installed in my test unit have lasted almost a month under constant use at the office, on trips, and at home. To say that the MS-103 is conservative with battery consumption is an understatement. An external 3 VDC adapter "block"

can be connected via a Jack on the left end panel of the radio to eliminate the batteries all together.

Antennas consist of a 24 inch telescopic whip for FM and the SW bands and an internal ferrite bar antenna for MW (AM broadcast). In tests using the InLine Components "Window Sticker" active antenna, enhanced reception was noted, along with an increase in image stations. Hence, it is not a good idea to use any kind of active external antenna system with this little radio. I also tried a 15 foot length of wire clipped to the whip with similar results. This indicates that the single chip receiver is being overworked when a more efficient antenna system is utilized. Best advice: stick with the built in whip for optimum results.

Bottom line on the Sangean MS-103 twelve band SW receiver: Good value for money for the traveling SWL. Audio quality, battery life, tuning ranges and small size combine to make this a very attractive package to the listener on the go. Restricted band coverage, lack of a BFO and presence of image stations on some SW bands are the only real drawbacks. It can not be over emphasized that the MS-103 is NOT a DXers or Utility buffs radio. It performs well on the SW bands when used for monitoring the major international broadcasters. Price: about \$115 (plus tax & shipping) from your authorized Sangean dealer.

Id like to thank Mr. Jay Menduke of Sangean America for providing the sample radio for this review. Write to Sangean America at 9060 Telstar Ave, Suite # 202, El Monte, CA 91731 and request their latest catalog of portable SW receivers. Don't forget to tell them you saw it in FRENEX.

# the CPRV page

COMMITTEE TO PRESERVE RADIC VERIFICATIONS

JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481

Heute des Empfangs  
Berlin.

Dear Radio Friend:

20 4 75

We are very much obliged for your communication of 12.4.1933 reporting reception of broadcast from our station on 7.3.33. We are glad by you have been checked by our log book. Take pleasure in verifying that what you thus heard was from the program of our shortwave transmission.

We should appreciate any further information on the receiving conditions in your district, as well as any suggestions or criticism which you may care to make. It helps us in our work, and it is pleasant to keep in touch in this way with our audience overseas.

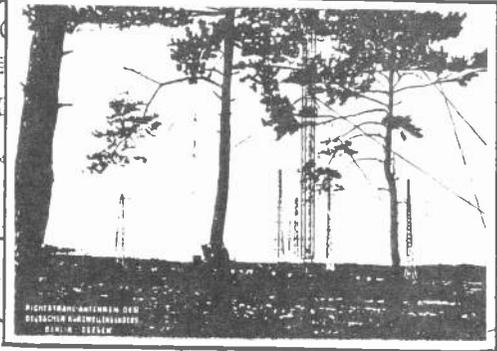
We would also appreciate if you would invite your friends to listen in to our program.

With best wishes for further successful logging.

Yours very truly,  
Deutscher Kurzwellensender.

31

These stations (Central European time) and wave lengths:	
North America:	5.00-5.20 (8.00-8.20)
DJL 25.15	5.30-5.50 (8.30-8.50)
DJL 25.20	5.50-6.10 (8.50-9.10)
South America:	
DJL 25.25	6.20-6.40 (9.20-9.40)
DJL 25.30	6.40-6.60 (9.40-9.60)
Japan:	
DJL 25.35	6.70-6.90 (9.70-9.90)
DJL 25.40	6.90-7.10 (9.90-10.10)
Other:	
DJL 25.45	7.20-7.40 (10.20-10.40)
DJL 25.50	7.40-7.60 (10.40-10.60)
DJL 25.55	7.60-7.80 (10.60-10.80)
DJL 26.00	7.80-8.00 (10.80-11.00)



dankt Ihnen für die ...

und bestärkt die Wichtigkeit Ihres Empfangsberichts

DJL DJQ E DZC DJL DJL

15.340 kHz 16.260 kHz 17.180 kHz 18.100 kHz 19.020 kHz 20.940 kHz

Reichspostzentralamt, Berlin - Tempelhof

Vertretung

Hormann

If you want your QSL's to outlast you, contact CPRV Registered Collections Coordinator John C. Herkimer at P.O. Box 54, Caledonia, NY 14423 for album stickers indicating the wish that your QSL's be donated to CPRV when the time comes. Cost is 50 cents each. Full info from John for a business size SASE. +++

The original German SW stn came to be known as "Zeesen" for the town near Berlin where its antennas were located. It began organized broadcasting in 1933, using directional antennas in place of the usual dipoles of the time. The top card depicts the large Zeesen antenna farm. Power was 5 kw. at first, but soon increased to 20 kw. Each frequency had distinct call letters (call letters were widely used by all stations in the early days of SWBC). From an editorial note in the July 1934 issue of Short Wave Craft magazine: "Even now the Zeesen station is laying down a surprisingly powerful signal in the eastern part of the U.S. . . . The 'loudspeaker' music was so loud on a 7-tube SW superhet that the volume control had to be turned away down. Even then it could be heard all over the house." Sound a little like another German station that you might have heard? 73 for now --

Reichspostzentralamt Berlin-Tempelhof, den 25. Mai 1934 1934  
IV H 4 5211-1/3 Welt

Wir bestätigen den Eingang Ihres Empfangsberichts vom 7. Mai 34. über den deutschen Weltfunksender

**DJD** 25,51 m [11760 KHz]

Seitenzahl 830-2230 MHz Nichtantenne nach Afrika  
0045-0430 " " Nordamerika

Vertretung

Hormann



# Listeners Notebook

**Editor: Bruce MacGibbon, 2295 NE Juniper Ave., Gresham, Ore. 97030**

**NOTE:** BBC Monitoring Service items (designated WBI for World Broadcasting Information) are copyright and may not be reproduced without BBCM permission. Also, Takayuki Inoue Nozaki, Japan, Editor/Publisher of "Relampago DX" has asked me to translate his SS information into EG for LN. I have tried to do just that w/help of an Interpreter. (bmm)

**SHORTWAVE LISTENERS' PROGRAM GUIDE** - It is a TV Guide type publication. It is published 4 times a year (Feb, May, Aug, & Nov). Subscription rates are: USA \$25.00 (Sample \$8.00), Canada/Mexico \$37.50 (Sample \$11.00), Other areas \$75.00 (Sample \$19.00). Personal checks are held 2 weeks. Money Order/Cash orders are mailed within 48 hours. All payments in US funds to: Shortwave Listeners' Program Guide; c/o Kraig Krist; 7213 Sipes Lane; Annandale, VA 22003; USA. (I fully recommend it. It is excellent!) (bmm)

**UPDATE** - Ref Aug LN - "Playing The Name Game" and "Myanmar" - On 7/8 on Radio Australia news the newsreader said Myanmar. This started me calling different organizations again! The local library "Facts on File" says the correct spelling is MYANMAR!

Ref Aug LN - "China" - Li Dan or not Li Dan? - "The identity of the speaker has been the subject of great controversy. It was widely reported to have been Li Dan, including an insider account by English advisor Steven Crandell, in the June 30 San Francisco Examiner (via Joel Rubin), but people who have met Li Dan, and who know his voice insisted to us at the ANARC convention that it was someone else whom they would rather not identify." (via "Review of International Broadcasting" Issue 130 Edited and Published by Glenn Hauser). A Chinese student friend of mine and a delegate to "The First Congress of Chinese Students in the USA" held in Chicago in late July, tell me an award was given to Li Dan, in abstentia, as being the broadcaster who made that courageous announcement on Radio Beijing.

"Asia Watch" info says a woman talked on the telephone to Li Dan on 21/8 and he is safe. (bmm)

**ARGENTINA** - 15780.0, Radio Rivadavia (LSB feeder)/Radio del Plata (USB feeder), 1350-15 fair, poor, very poor on 9/7. Program on Sunday "Sunday Magazine", and at 14-15 micro-noticias "Rotativo del Aire". Confirms ID as "Informe Rivadavia al servicio de la verdad." And in the USB mode at the same hour "Radio del Plata" with the music program "El Radio-Show" y cada media hora nx "Radio Noticias del Plata" con una presentacion de "Bardal". 15780.1, Radio del Plata (LSB feeder), Buenos Aires, 14-1505 & 21-2133 good, fair on 2/7. Pgm "El Radio Show" with popular songs, interviews, talk w/listeners. Every half hour a micro-news is broadcast "Radio Noticias del Plata" and their slogan is this way: "1030 dia y noche, informando siempre primero y mejor, Radio Noticias del Plata." (The number 1030 corresponds with the frequency on medium wave 1030kHz. After the news, always ID "Del Plata 1030 del dial, la radio comprometida, unicamente con un pais." Note: According to monitoring of this frequency in late June and early July, Radio del Plata and Radio Rivadavia here every Sunday. And Tue-Sat nothing is heard. On Monday this frequency is utilized as "Emisora Utilitaria" entre Argentina y Base del Ejercito "Esperanza" en Territorio Antartico Argentino, he escuchado algunas telecomunicaciones entre la gente que trabaja en la base y su familia, a traves de esta transmision (USB feeder). Entonces, se puede decir que las emisiones dominicales de Radio Rivadavia/Radio del Plata en esta frecuencia podrian ser el servicio especial hacia el Territorio Antartico Argentino. (Takayuki Inoue Nozaki, Editor/Publisher "Relampago DX" No. 32, Apr, May, Jun 89)

**BELGIUM** - Radio 4 Internationale Pub Sked to 23/9: Afrique: Mon-Fri

0330-0515 9925, 11660; 0530-0630 17675; 10-12 & 15-1545 25645; 16-18 21540, 15540; Wed: 18-2015 17675, 15540. Sat & Sun: 04-0415 9925, 11660; 0530-0955 17675; 10-12 25645; 10-1545 (Sunday) 25645; 16-1755 21460, 15540; 18-2015 17675, 15540; Europe: Mon-Fri 0530-0630, 10-12, 15-1545 9925. Sat: 0530-0955, 10-12, 15-1545 9925. Sun: 0530-1545 9925. (Marc Schlossman, CA)

BHUTAN - A FAX from Manosij Guha, based in Delhi, to Radio Nederland's Media Network Program on 11/8: AIR Engineers have just returned from Thimphu in Bhutan after installing a 50kW shortwave transmitter, which was a gift to the Bhutan Broadcasting Service by the government of India. The transmitter is allocated 9615kHz for use during the local daytime and 6035 at night. That may well improve audibility of the station elsewhere in Asia.

BOLIVIA - 3473, R. Padilla, 0038-0105, Ballads, Andean vocals, ID 0053 "R. Padilla...onda corta...en la ciudad de ? ". Poor on 8/3. Nice catch OM!! Not reported very often (Dave Valko) (Atkins via "Fine Tuning" 527, 17/8) 3280 -R. Chaco de Ayacuiba is new here, CPL19. Sked \*09-04\* (NRR in WRTHLA via "DSWCI" Shortwave News Aug 89) 4600 -R. Perla del Acre is the correct name of this one, situated in Cobija. Heard 1/7 sports program 2319-2331 "Aqui, en La Perla del Acre" (Gabriel Ivan Barrera, Argentina) 14/7 0135-0203\* s/off announcement: "Han sido muy amables en estar en la sintonia de La Perla del Acre. Desde Cobija, capital del Departamento de Pando, Bolivia, les decimos muy buenas noches y les deseamos en suena reparador" (Daniel Camparini, Argentina) located by the Acre River (Gabriel Ivan Barrera, ibid. in "Onda Corta") heard as UNID 12/6 2310 f/out 0100 (Jean Pierre Penaud, France, 1/7 0110-0120 political news (Julian Anderson, Argentina). Sked 11-0100 weekdays, 11-0500 weekends. First logged 12/4 (Rojas, in Pampas DX via "DSWCI" Shortwave News Aug 89)

BRAZIL - The following stations are now private: Radio Nac. de Tabatinga, Benjamin Constant, AM; Radio Nac, Sao Gabriel da Cachoeira, AM; Radio Nac., Porto Velho, RO; Radio Nacional, Cruzeiro do Sul, AC; Radio Nacional, Manaus, AM (Morales in SWB via "DSWCI", Shortwave Station News, Aug 89) R. Dif de Londrina, 4814.5 from 0130 Braz songs, 0157 PT news & ID, 0205 PT religious pgm; strong signal and announcing 10 kW on 8/8. (Ernie Beher, Kenora, Ontario) 4905, R. Anhanguera de Araguaia (ex R. Araguaia) (Hermod Pedersen in WRTHLA), letter, decal, info from R. Anhanguera v/s Edson Guimaraes, whose home address is Rua Bela Vista 1079, Barrio San Joao, 77800 Araguaia, Tocantins. Edson tells that the name Anhanguera de Araguaia is used on MW 870 kHz, while the name R. Araguaia is still used on FM. The FM station aims at the youth while MW and SW aims at being "A emissora que de eco a sua mensagem" (Stefan Bjorn in SWB via "DSWCI Shortwave News" Aug 89) 5014.9, R. Pioneira, 0833-0900, vocals, theme music "Ghost Riders in the Sky", 0846 ID, announcements on 23/7. (Sheryl Paszkiewicz, WI via "Fine Tuning" 527, 17/8) 6104.7, Radio Cultura de Foz do Iguacu, Foz do Iguacu, 0958-1013 fair-poor on 14/5. Regular program "Canta Brasil" w/musica sertaneja. At 1000 ID "Sintonizam emissoras brasileiras da Radio Cultura de Foz do Iguacu Ltda. ZYJ238 820kHz ondas medias, ZYD374 96.6MHz frecuencia modulada, ZYE728 49 metros 6105kHz e 3l metros 9530kHz ondas curtas, Foz do Iguacu, Perana, Brasil.". Note: Here in Tokyo generally not heard very well due to interference from Radio Cancao Nova (6105.0kHz). Sometimes Radio Cancao Nova is off the air able to hear Radio Cultura de Foz do Iguacu. (Takayuki Inoue Nozaki, Japan, ibid)

CAMEROON - Radio Garoua has dropped 5010 in favor of 7240 and the transmission begins at 20430 everyday. (Richard Ginbey via RN's "Media Network" 20/7), but Bob Padula, in Surrey Hills, Australia heard them on 5010 on 25/7 w/modern French pops/vocals, French announcements to 2300\*. 4000, R. Bafoussam(t), 0434-0531, OM in FF, Afro choral music, ments of "Hallelujah" and "Amen" so poss. church or religious service. No ID on the hour and no news relay at 0530. Fair to good on 23/7. (Robert Ross, London, Ontario) 4850, Yaounde. African vocals 2240, QRM from Tashkent's line-up tones at 2247, through to 2255 when either s/off or f/out 22/7 (Bob Padula, ibid.)

CANADA - Ernie Beher, Kenora has these comments about "Budget Cuts" at

RCI: The statement regarding the CBC from our Executive Director in the August FRENEX (Page 1) is totally incorrect. Some budget cuts have been proposed, which may affect CBC or RCI programs, but the Canadian government has no intention of eliminating the CBC. 6160, CKZM (Newfoundland), \*0800, Surprised to hear this w/CBC station list, ID, CBC news on 23/7. (Dan Sheedy, CA via "Fine Tuning" 527, 17/8)

CENTRAL AFRICAN REPUBLIC - 6100NF slightly variable and replaces 7230 and it's on the air 0630-1630 and 5035 remains unchanged. (Richard Gibey via Radio Nederland's "Media Network" 7/20)

CHAD - 4905, Ndjamena. Excellent w/African vocals 2255 to 23\* on 7/22 (Bob Padula, Surrey Hills, Australia)

CHINA - Your Editor is currently compiling a list of Radio Beijing Announcers: On 8/2 - Chen Hao(M) - World News, Luo Qiao(M) - News About China, Shen Shao(M) & Wang Ruiping(W) (Didn't note pgm), Yan Fang(W) - (Didn't note pgm), Wei Hua(W) and Lin Shaowen(M) - (Listeners Letterbox). 8/14 - Chen Hao - World News, Luo Qiao(M) - News about China, Wei Lin (W) - China Anthology, Xiao Shan(W) - Music Album, Fang Lin(W) - schedule at the end of broadcast). One announcer I haven't heard lately is a woman, Xiao Du(W). Anyone wishing to add to this list, I would appreciate the info. Incidentally, the Wei Hua that is on Radio Beijing is not the same Wei Hua (China Radio & TV) that was interviewed on ABC's "Nightline". This according to a friend who knows the Wei Hua interviewed on "Nightline". Also I will try not to duplicate the list except for news readers. (bmm)

Update on Beijing Calling (8375kHz) - Except Sat as a rule at 1300, 1330, 1400, 1430, 1500, 1600. and Update on Guangzhou Calling (8350kHz) - On odd numbered days 1500 and 1530. (Ref LN Aug 89 - change "Guangdong" to "Guangzhou") (via Testsuya Kondo, Yokohama, Japan) 2340, Fujian-1, Fuzhou. Good level 2121 to fade-out 2130, CC talks on 29/7) 2475, Zhejiang-1 PBS, Hangzhou. CH service, talks 2109-2130 fade-out on 29/7 (Bob Padula, Ibid) 3940, Hubei PBS, Wuhan. Good signals 2103, CH instrumental items on 29/7 (Bob Padula, Surrey Hills, Australia) 3930, Chifeng PBS (Chifeng), Nei Menggu. Rare outlet, CC music 2130, Mongolian announcements, first noted 25/7, with Transkei gone from this frequency! Not Cape Verde (shame!!!). Again at 2050 with Mongolian and CH talks, alternating. Audible until about 2200. (Bob Padula, Ibid.). 3970, Hohhot (Nei Menggu PBS). Interesting morning signals, with CH announcements around 2140 to fade out 22 on 26/7. (Bob Padula, Ibid) 4220, Urumqi. Mongolian service, around 2235 to 23 fade-out on 29/7 (Bob Padula, Ibid) 4500, Urumqi. CH Network w/nice songs 2240 to 2245 fade-out on 29/7 (Bob Padula, Ibid) 4750, Lhasa. CH service w/vocals at 2205. Apparent \*22 after Mongolia fade-out co-channel//s heard 5935 & 7170. 4750 audible until about 2240 fade-out on 29/7 (Bob Padula, Ibid) 5950, Lhasa. Ah, the Tibetans are back! Our journey along the Silk Road to Samarkand is not yet over. We see more and more interesting things each day, now. Might even catch a Yeti if we're lucky! CH service 2210, apparent \*22 for their summer, audible to 2310//5995 also heard. Not audible on listed 7110, may have gone from there on 29/7. (Bob Padula, Ibid) 6025NF, Beijing. Noted at \*2230 with External Service, beginning CH languages, continuing in Cantonese from 23 to 2320 fade-out. QRM from Kuala Lumpur, also on 6025, and also with its own CH programme! The Beijing service is on a string of parallels including traditional 15330. QRM on 6025 also from Budapest co-channel throughout on 25/7 (Bob Padula, Ibid) 6035, Kunming (Yunnan PBS). \*2230 w/Vietnamese service (or similar dialect), then into news, to about 23 fade-out. Some days, Radio Australia on 6035 until 2330, but latter seems to be running to an erratic sked on 28/7 (Bob Padula, Ibid) 11375, Beijing. Minority Languages service, Tibetan, around 2310//15670 where also heard. These Tibetan programmes really get me going--I need the practice with the language for when I go there next year. (Bob Padula, Ibid) 11515, Beijing. Recent NF for Esperanto service, 2245// 9860 where also heard on 28/7 (Bob Padula, Ibid) (See Mali)

COLOMBIA - 4260.2H, R. Reloj HJHK Manizales 0214-0230 on 7/1 poor with Lam vocals, IDed by Parks. 3 x 1420 kHz (Krueger, FL via DSWCI No.8 Aug 89) 4710.35H, La Voz de Los Fundadores, Manizales 0000-0400

nightly since 17 June through late July with amateur sounding format. IDs and mentions of Cadena Super. From same town as above harmonic! 3 x 1570.1 kHz (Krueger, FL via DSWCI No. 8, Aug 89) 4865.1, La Voz del Cinaruco, Arauca; Transmits 24 hrs daily (ex 09-0400). La Voz del Cinaruco operates on HJLZ 1050kHz en onda media (10kW) & on HJLZ 4865kHz banda de 60 metros on Short wave (5kW). The transmitters were constructed by "Sintronic Corporation" (Pennsylvania) and equipment by "Radiodifusion Fric" (Bogota, Colombia). The theme is "La Voz del Cinaruco transmite desde Arauca, Colombia y Venezuela." (Takayuki Inoue Nozaki, Japan, ibid.) 4945.1, Caracol Neiva, Neiva; 1058-1102 fair/poor on 10/6. ID "Esta es CARACOL, HJZR 1010kHz. Emisora de la Primera Cadena Radial Colombiana, CARACOL, mas compania." Seguidamente retransmitio news "Informativo de las 6", la cual fue originada en Bogota. (Takayuki Inoue Nozaki, Japan, ibid.) 4975.0, Ondas del Orteguaza, Florencia; \*1005-1020, fair with QRM from China on 26/5. Opens with anthem of Nacional de Colombia, then regular pgm "Amanecer Campesino". At 1020 confirmed ID "Desde el radio-centro TODELAR en Florencia, les habla Ondas del Orteguaza, emisora JHAU 1160kHz y HJQA 4975 kHz banda tropical de 62 metros. TODELAR, lo moderno en radio." With bell of Circuito TODELAR de Colombia. Note: The SW channel varies between 4975.0 & 4975.1 because of problem with crystal. (Takayuki Inoue Nozaki, Japan, ibid.) 17713v, 0300, Radio Nacional de Colombia, Bogota, M w/news and W w/report on Botha resigning in S.Afr on 8/15 (bmm)

COOK ISLANDS - When Brian Dodgson and your editor (Harry Weatherley) were at Rarotonga in May 1988, R. Cook Island's Director & Chief Technician, Nooroa Tangaroo showed us over the almost completed new studios for the station. They expected to move in within a few months. During the recent July 1989 trip to Rarotonga your editor (Harry Weatherley) spoke with Nooroa Tangaroo and found that R. Cook Is., were still in the old building! What happened was a change of Government took place in January 1989 and the building housing the new studios was required for other purposes. The new Government is selling the newspaper operation of Cook Islands Broadcasting & Newspaper Corporation. They have also decided to introduce TV to the islands and Nooroa advised that this could be in operation by December 1989. They intend taking a satellite relay of New Zealand TV for the time being. There are no plans to upgrade the radio service. Both Radio and Television will be under the control of the same Government Minister but each will operate with separate technical services. (Thanks to Nooroa Tangaroo for this information) (via "DX'ers Calling" The monthly magazine of DX Australia 89/8)

DENMARK - Radio Denmark Sked: 0000-0052, 01-0152 Am 15165; 09-0952 Asia 25850 (but now 1779NF, see logging, bmm); 10-1030 Australia/Am P1 domestic service news for Greenland and Pacific 15165; 11-1152 Eu/Afr, 12-1252 As/Au, 13-1352 As 25850; 14-1452 As/Au 17840; 15-1552 ME 17865, 1630-1730 Am P1 domestic service news for Greenland and the Pacific 15175; 18-1852 ME,Af 25820; 19-1952 Eur,Af 25850; 20-2015(Mon-Fri) Am P3 domestic service news for Greenland the Pacific 15175; 20-2052(Sat&Sun) Am P3 domestic service news for Greenland and the Pacific 15175; 2030-2045(Mon-Fri) Eur,Af P3 domestic service news 17865; 21-2152 As,Au, 22-2252 Am, 23-2352 Am 15165. (WBI 21/7) 1779NF, Copenhagen, replacing listed 25850, for Danish to Japan, 0935. Very bad frequency choice, as severe co-channel QRM from BBC-Ascension, with World Service on 8/1 (Bob Padula, Surrey Hills, Australia)

ECUADOR - 1190NF, 0437, HCJB, JJ, M announcer, JJ music at 0441 ex 11725 into EG at 05 "Passport" pgm//9745, 6230 on 8/2 (bmm)

EGYPT - Radio Cairo English Service to North America: PO Box 566, Cairo, Arab Republic of Egypt. Daily Broadcasts: 0200 to 0330 G.M.T. Freqs: 9475, 9675. Daily 0202 Egyptian Music, 0215 News I, 0315 News 2, 0330 Close Down with National Anthem. July to December 1989:  
Sun - 0205 The Egyptian Woman, 0225 Current Events, 0235 Life in Egypt, 0245 Listeners Mail. Mon - 0205 Mail Call, 0225 Commentary, 0235 Development '89, 0245 Egyptian Song, 0250 Cultural Life in Egypt, 0300 Stars on Egyptian Land, 0310 Egyptian Song. Tue: 0205 The Lighter Side of the News, 0225 Spotlights on the Middle East, 0235 Tourism in Egypt, 0245 Egyptian Song, 0250 The Message of Islam, 0300

Modern Egyptian Songs. Wed - 0205 Wednesday Talk, 0225 Commentary, 0235 Ancient Egyptian Civilization, 0245 Listeners Mail. Thu - 0205 This Week in History, 0225 Egypt's Foreign Policy, 0235 Story and Author, 0245 Scientific Life in Egypt, 0255 Cairo Magazine. Fri - 0205 Holy Koran and its Interpretation, 0225 Letter from Egypt, 0235 Readers Corner, 0245 Listeners Mail. Sat - 0205 Questions and Answers, 0225 The Palestine State, 0235 Stamp Collectors Club, 0245 Who's Who, 0255 Mike Visit, 0305 Architecture of the Pharaohs. Thank you for joining us, Mrs. Sahar Khalil, Director, English Service to N.A. (Rila, Radio Cairo) 9670, 2145, Radio Cairo, Found on this unsked outlet w/General AA Pgm//9580 and not on usual 9475 on 7/7 (Bob Padula, ibid.)

FIJI ISLANDS - 12140USB, 0523, University of S. Pacific, Law Class, M instructor was giving homework. Said he would meet with them again in 2 weeks from the Cook Islands. Then asked for any questions and a Solomon Islands student asked a question. At 0537, the instructor asked if students had their materials for the class. At retune 0654 a W was explaining to the students her policy of turning in assignments. At 07 W thanked everyone for coming & 0701\* on 2/8. M instructor was back the next night 3/8 so must have been different students. On 22/8 at 0550 M instructor talking about the Constitution in relation to land and property t/0607 then at 0608 W instructor with different session and checking on students in her class. No students in Suva due to gloomy weather (rain)! Gave homework assignments. Also had students introduce themselves. Must have been first class. Asked students in Tonga to please turn down the radio as she could hear music in the background. I tuned out at 0615. So look for this Mon,Tue,Wed in NA. (bmm)

GABON - Africa No. 1 will commission a fifth 500 kW transmitter next month. (Excerpted from WBI 4/8 which quoted AFP news agency, Paris, in FF 1615 gmt 24 Jul 89)

GHANA - 3366, Accra. Network Two, EG pgm, feature w/modern songs 2155 through to fade-out 2215, which isn't bad for this noisy location on 22/7 (Bob Padula, Surrey Hills, Australia) 4915, Accra. First time noted here this winter! Local languages 2245, then Koran recitations 2250, close down at 2304 on 7/22 after anthem. (Bob Padula, ibid)

GREECE - 11635, Radio Station Macedonia, Thessaloniki. Moved to this freq from former 11610 for local evening service, GK pgm, 2045 through to 2115\*//11595. First noted on 20/7 (Bob Padula, ibid.)

GUAM - Trans World Radio - KTRW Sked: \*0805-0930 EG t/Asia daily including Sunday 'Pacific DX Magazine' 0845-09 on 15210; 0830-09 RR t/Soviet Far East daily on 11735; \*09 Standard Chinese t/Asia on 15195, 11665; 0930 15195, 11710, 11665; 1030 15195, 11665; 12 11665, 9820, 9590, 14-15\* 11665, 9820. \*0930-11\* EG daily t/Australia on 11805 including Saturday 'Pacific DX Magazine' 10-1015; 1030-12 Indo daily t/Asia on 15240; 11-12 JJ 11840; 12-1230 JJ 9785; 1330-1345 Swatow (Sun,Thu,Fri,Sat) 11830; 1330-15 Hakka (Mon,Tue,Wed) 11830; 1345-15 Cantonese 11830; 14-1415 Nepali (Sun,Thu,Fri,Sat) 14-1415 Tibetan (Mon,Tue), 14-1415 Urdu (Wed), 1415-1430 Dogri (Mon,Tue), 1415-1430 Gamit (Sun,Fri,Sat), 1415-1430 Hindi (Wed,Thu), 1430-1445 Assamese Daily, 1445-15 Santali daily. All on 11910; 15-1530 RR daily 9895; 15-1530 Tamil daily 11910; EG \*15-1635\* (Mon to 1705) including Saturday 'Pacific DX Magazine' 15-1530 on 11650. 2030-2045 Swatow (Sun,Thur,Fri,Sat), 2030-2045 Hakka (Mon,Tue,Wed), 2045-22 Cantonese daily on 11650; 21-22 JJ on 11840; \*21 Standard CH 11665; 22 add 15265; 2245-23 drop 15265; 22-23 Indo 15420. (via WBI 28/7)

INDIA - The "All India Radio" graphic sked as of 20 Jun 89 is now available for SWL's in USA & Canada. Cost is \$2.00 in mint United States Postage Stamps for each copy ordered to: Mr. Robert Palmer, E. 12707-15th Ave Spokane, WA 99223-5101. His telephone # is 1-509-536-7671. (Call between 14-04 UTC). Listeners in the rest of the world US \$3.00 cash or 3 IRCs to Mr. Manosij Guha, S.A.R.C.; 63 K.D. Flats; Jamshedpur - 831 005, India. You may telex him +81 626 252 pco in (24 hours). All orders are processed promptly.

AIR External Updates as of 1/7: 21670D 10-11 EG to Australia. Dropped after a few days. 21555 (Test) 1215-13 CC, 13-1330 Kuoyu to

China. Irregular as 21 MHz antenna not up yet; 15360D(Test) 1515-1745 in Sinhala, Hindi, Gujarati to E.Afr; 15110D(Test) 1215-13 CC, 13-1330 Kuoyu to China; 15050A 10-11 EG to NE Asia ex 15155; 11850D(Test) 1330-15 EG to SE Asia; 10330D(Delete) 13-15 Sinhala, Nepali. Carries home service to Port Blair now; 9525D(Test) 1330-15 EG to SE Asia and 1515-1745 Sinhala, Hindi, Gujarati to E.Afr; 7160M, 08-0830 Tamil to Sri Lanka (ex 07-0930); 4920M(Add) 12-1230 Tamil to Sri Lanka. The 2 x 500 kW HF transmitters installed near Bangalore may begin testing with reduced power during the Indian working hours (0430-1230 UTC) on the following allocated freqs: 6180, 7265, 9705, 11895, 15295, 17850. Transmitter Sites: A=Aligarh, B=Bombay, D=Delhi, K=Kurseong, M=Madras. (Manosij Guha, New Delhi) and a FAX to Radio Nederland's "Media Network" Program on 10/8 by Manosij Guha based in Delhi with further updates: "The two new 250kW shortwave transmitters at the All India Radio Station at Khampur, just outside Delhi, were indeed active for the first three weeks of July. They came on with Cantonese, Swahili, and Hindi programs amongst others. But although the transmitters are working, the new antennas are not yet finished. The tests were made using old antennas and mismatch problems were experienced with some tests on some 21 Mhz channels. More tests can be expected shortly. Look for the General Overseas Service between 10 and 11 UTC on 21670 and 21555 and again 1330-15 on 9525 and 11840. Between 1515 and 1745 programs in Swahili, Hindi, and Gujarati are being tested on 9525 and 15360 kHz. For Shortwave Homes Service transmitters at Port Blair and Leh both 10 kW and the external service 50 kW Shortwave transmitters at Gorakhpur are already to begin operation but are currently silent due to a bureaucratic rangle. They are awaiting frequencies to be granted by the Indian Minister of Communications. It is clear that All India Radio is finding it increasingly difficult to get frequencies from that department at short notice. 10330 kHz seems to be an interesting channel to watch. It's used as a feeder frequency by All India Radio to reach remote transmitter sites. When talks over the Sri Lankan issue ran into problems earlier this year, 10330 kHz carried a feed in Sinhalese. It switched to an extended Nepali Service when impasse arose with Nepal. Now it has started carrying All India Radio's Home Service News Hookup with a fixed beam to Port Blair", and on 18/8, Manosij Guha reported to Radio Nederland's "Media Network Program that "All India Radio" 'Leh' is being relayed between 1130-1630 UTC on 4760. Nothing is heard in the morning. And said something like it would take him 2 or 3 days to find out whether actually the tests are or that Port Blair and Leh are going on alternate days. & Jonathan Mark's "You may remember that the same frequency 4760 has also been chosen for an All India Radio transmitter at Port Blair on the 'Andaman Islands'" & via Victor Goonetilleke (Sitting across from Jonathan Marks). Port Blair heard testing in Sri Lanka on 4760 around 1230 UTC past 1600. 15020NF, 1309, AIR, Sinhala(listed). Strong signal ex 15120//11620 on 1/8 (bmm) 15050, 1030-11, AIR, EG (Ernie Beher, Kenora, Ontario via Glenn Hauser on RCI's SWLD 6/8)

INTERNATIONAL WATERS - "The Radio Station, Radio Caroline was silenced on Saturday after a raid by Dutch officials, when the ship The ... Avenger was in international water. It was boarded in a joint operation involving Dutch Coast Guard, Police, and Trade Inspectors. The operation was apparently carried out after official complaints from Sweden, Hungary, and Britain that broadcasts, from the ship, caused interference on an emergency frequency used by international shipping. The raid put Caroline out of action as well as Radio 819 and World Mission Radio, as they all transmit from this same ship. Reports in the 'Sunday Express' say that the boarding party dismantled the stations transmitting equipment..." (Excerpts from report on "Sweden Calling DXers" om 23/8)

IRAN - Islamic Republic of Iran Broadcasting External Service Sked to Sep 89: EG 1130-1225 7215, 11715 ME, 9575 Indian subcont, 11790 E&SE Asia-Indian subcont; 1930-2030 9022 Eur,W.USSR,N.Afr,Eastern part of American cont, 6030 Eur. SS: 2030-2130 6030 Eur, 9022 Eur, N.Afr, Eastern part of American cont.; 0130-0230 9022 Eastern part of American cont., 11930 CAM, SAM, 15084 Eastern part of American cont.; 0530-0630 9745 Eur, 9022 Eur, N.Afr, 15084 Eur; GG: 18-1845 6030, 9022 Eur. FF: 0630-0730 9745 N.Afr, 9022 Eur, N.Afr, 15084 Eur; 1845-

1930 6030 Eur, 9022 Eur, N.Afr. RR: 13-14 9022 Eur, W.USSR, 7215 USSR; Turkish: 04-05 9745 Turkey, N.ME, 9022 Eur, W.USSR, 15084 Eur; 17-18 9022 Eur, W.USSR, 11895 Turkey, N.ME.; Urdu: 1230-1330 11790, 9575 Indian subcont., 11715 ME, 7215 Indian subcont.; Bengali: 1430-1530 11790, 9575 Indian subcont, 11715 ME. (Jim Renfrew, NY)

ITALY - RAI - Italian Radio and Television Sked. Frequencies in brackets are temporarily suspended according to RAI engineering schedule. 01-0120 EG Am 11800, 9575; 01-0120 SS Am 15245, 11905, 9710; 0120-0135 FF Am 11800, 9575; 0120-0135 PP Am 15245, 11905, 9710; 0140-0305 IT Am 15245, 11905, 11800, (9710), 9575; 0305-0325 SS Am 15245, 11905, 11800, (9710), 9575; 0330-0345 RR Eur (15330), 11905, 9710, 9575, 7275; 0350-0410 EG As 17795 (15330), 11905; 0350-0410 Ukrainian Eu 9575, 7275; 0415-0425 IT Eur, ME 9575, 7275; 0415-0435 Amharic Af 21560, 17795, 15330; 0425-0440 EG Eur, ME 9575, 7275; 0435-0510 IT Af 21560, 17795, 15330; 0445-0505 Lithuanian Eur 9575, 7275; 0510-0530 Romanian Eur 9575, 7275; 0510-0530 Somali Af 21560, 17795, 15330; 0535-0555 AA ME 17795, 15330, 11800; 0535-0555 RR Eur 9575, 7275; 0830-0930 IT Au 21615, 17740, 15330, 11810, 9585; 1330-1345 (Mon-Sat) AA (One hour later in winter) ME 9515, 6050, 567; 14-1425 IT Am 21690, 21560, 17800; 1410-1730 Sun IT (relay of domestic sports pgm) Af, Au, Am 21690, 21515, 17800, 15330, 9710; 1430-1455 FF Eur 11905, 9575, 7290; 1430-1455 Italian (For Malta) Eur 9710, 7235; 15-1520 Serbo-Croat Eur 9575, 7290, 5990; 15-1520 Turkish Eur 9710, 7235; 1520-1535 Slovene Eur 9575, 7290, 5990; 1520-1540 GK Eur 9710, 7235; 1535-1550 GG (for Austria) Eur 9575, 7290, 5990; 1540-16 Bulgarian Eu 9710, 7235; 1555-1635 IT Eur 9575, 7290, 5990; 1605-1625 RR Eur 9710, 7235; 1630-1655 FF ME 9710, 7235; 1640-1655 Somali Af 21690, 17780, 15385; 17-1715 (Sun) IT (one hour later in winter) Eur 1440-via Luxembourg; 17-1745 IT ME, Af 21690, 17780, 15385, 9710, 7235; 1730-1745 Mon-Sat IT (one hour later in winter) Eu 1440-via Luxembourg; 1750-1810 AA ME 9710, 7235; 1750-1810 GG (for FRG) Eur (9575), 7275, 5990; 1810-1825 GG (for GDR) Eur (9575), 7275, 5990; 1815-1830 Czech Eur, 1830-1845 Slovak Eu 9710, 7290; 1830-1905 IT Am 21560, 17780, 15245; 1845-1905 Polish Eur 9710, 7290; 1910-1930 AA ME (15245), 11800, 9710; 1910-1930 Serbo-Croat Eur 9575, 7275; 1935-1955 EG 11800, 9710, 7275; 1935-1955 Hungarian Eu 9575, 7235; 20-2020 Albanian Eur 9575, 7235; 20-2020 Danish Eur, 20-22 Sat Esperanto Eur, 20-22 Swedish (Mon, Wed, Fri) Eur 11800, 9710, 7275; 2025-2045 AA 1ME 9710, 7275; 2025-2045 EG ME 11800, 9575, 7235; 2050-2110 SS Eu 9575, 7275; 2050-2130 IT Au 11800, 9710, 7235; 2110-2130 PP Eur, 2135-2155 Czech Eur 9575, 7275; 2135-2155 Romanian Eur 9710, 7235, 5990; 2155-2210 Slovak Eur 9575, 7275; 22-2225 EG As (15300), 11800, 9710; 2210-2225 Polish Eur 9575, 7275; 2230-01 Am 15245, 11905, 11800, 9710, 9575. (WBI 21/7)

JAPAN - Radio Japan Broadcast Sked (S89) 9/3-11/4: Regional Service: AA: ME & N.Afr 1830-19 11915; Burmese: SE Asia 1130-12 11875, 17820; Bengali S.Asia 15-1530 9535, 11935; CH: Asian Cont. 1130-1230 7210, 9580, SE Asia, Asian Cont. 1230-1330 11875; Asian Cont. & SE Asia 1445-1545 7210, 9580, 11840; EG: NA 01-0130 117775, N, Central & SAm, Hawaii 03-0330 15195, 17825, 21610, Central Am 03-0330 15325 (French Guiana), Oceania 09-10 15270, 17890; FF: Eur 0630-07 21690 (Gabon), 21500, ME & NAfr 19-1930 11915, Eur 2030-21 11835; GG: Eur 06-0630 21690 (Gabon), 21500, 20-2030 11835; Hindi: S.Asia 1530-16 9535, 11935; IT: 0545-06 21690 (Gabon), 21500, 2115-2130 11835; Indo: SE Asia 1015-1115 15300, 17820, 23-0000 11840, 17890; JJ: N. Central & SAm, Hawaii 02-03 15195, 17825, 21610; KK: Asian Cont. 1030-1130 7210, 9580, 1330-1430 6080, 7210; Malay: SE Asia 12-1230 11875, 17820; PT: SAm 09-0930 9675 (French Guiana), 11875; RR: Eur 05-0530 21690 (Gabon), 21500, Asian Cont. 1230-13 7210, 9580; Swedish: Eur 0530-0545 21690 (Gabon), 21500, 21-2115 11835; SS: Cent. Am 0330-04 15325 (French Guiana), SAm 0330-04 15350 (French Guiana), Cent. & SAm 0330-04 15195, 17825, 21610, SAm 0930-10 21635 (Gabon), 11875; Kiswahili (Swahili): E.Afr 1630-17 9535, 11935; Thai: SE Asia 1330-14 11875, 15270, 17810; Urdu: S.Asia 16-1630 9535, 11935; VV: SE Asia 14-1430 11875, 15270, 17810, 2230-23 11840, 17890.

General Service: SE Asia: 0000-0030 JJ, 01-02 EG, 02-03 JJ, 03-04 EG, 04-05 JJ, 05-06 EG, 06-07 JJ, 07-08 EG, 08-09 JJ 17810; 09-10 17810 EG, 10-11 JJ, 11-12 EG, 12-14 JJ, 14-16 EG 11815; 16-17 JJ 17180, 15140, 11815; 17-18 EG 11815; 21-2130 EG 17180, 15230; 22-23 JJ 17810, 23-24 EG 21610, 17810. Asian Cont: 0000-0030 JJ 17765,

15195; 01-02 EG, 02-03 JJ 17835; 03-04 EG 17835, 17765; 04-05 JJ, 05-06 EG, 06-07 JJ, 07-08 EG, 08-09 JJ 17765; 10-11 JJ, 11-12 EG, 12-13 JJ 11840; 16-17 JJ, 17-18 EG 9695; 20-2030 JJ 11815; 21-2130 EG 11815; 22-23 JJ, 23-24 EG 17765, 15195; S.Asia: 0000-0030 JJ, 01-02 EG, 02-03 JJ 17845; 17-18 EG, 18-19 JJ 9535; NA: 01-02 EG, 02-03 JJ (From Oct. 30 (UTC Date), 02-03 JJ, 03-04 EG) 5960(Sackville); 04-05 JJ, 05-06 EG, 06-07 JJ 17825, 15195; 10-11 JJ, 11-12 EG (from Oct 29, 11-12 EG, 12-13 JJ) 6120(Sackville); 12-14 JJ, 14-16 EG 11865; 16-17 JJ 15195, 11865; 17-18 EG, 18-19 JJ, 19-1930 EG 11865; 20-2030 JJ 17825. Cent Am: 02-03 JJ 15325(French Guiana). S.Am: 0000-0030 21635(Gabon); 02-03 JJ 15350 (French Guiana); 08-09 JJ 15390, 9675(French Guiana); 10-11 JJ 21635(Gabon); 22-23 JJ 9685(French Guiana). Oceania: 05-06 EG, 06-07 JJ, 07-08 EG, 08-09 JJ 15270; 18-19 JJ 11850; 19-1930 EG, 20-2030 JJ 15270, 11850; 21-2130 EG 17890, 15270. Eur, ME & Afr: 03-0330 EG, 04-0430 JJ 7125(Gabon)t/S.Afr; 07-08 EG 21690(Gabon), 21500; 08-0830 JJ 21690(Gabon)t/ME, etc.; 08-09 JJ 21640(Gabon)t/Eur, etc., 21500; 15-16 EG, 16-17 JJ 21700(Gabon)t/ME, etc.; 21-2130 EG t/Eur etc, 22-23 JJ, 23-24 EG 11765(Gabon)

NHK HS SW relay Broadcasts monitored during June 89 by Yukimasa Matsushita, Japan. All these are relays of NHK's 1st Network, except for Osaka which is a relay of the 2nd Network:

3259USB is Fukuoka to 13\*\*/612 kHz; 3377 AM mode is Osaka to 13\*, no local ID; 3607.5USB is Tokyo to 13\* no local ID//594 kHz except 0950-0955; 3970USB is Nagoya to 13\*, local ID @ 0959//729 kHz); 3970 AM mode is Sapporo \*13-15\*, no local ID//567 kHz; 6005 AM mode is Sapporo to 1230\*, local ID @0959. Times of local programming on NHK's 1st network: Daily 0855-09; Sun-Wed 0950-10; Thurs-Sat 0955-10; Mon-Fri 1015-1020; Sat/Sun 1010-1015; Mon-Wed 1055-11 and 1155-12; Daily 1255-13 and 1455-15. (via "Asia/Oceania" column edited by William Westenhover, Montreal, Quebec in SPEEDX 89/8)

MALI - R. Beijing relay heard on 15110.8v since 28/7, now on 15109.8, apparently w/new sked; not certain of langs, from \*17 seems Swahili & other Afr, 1830 AA, 1930 PT, 2000 EG, 21 CZ/FR, 22 CH to 2256\*. Seems//11715.lv, which is much weaker. (Ernie Beher, Kenora, Ontario). 16 EG 15110, 11715Mali, 9570, 4130; 17 Swahili 15110NF(Heard) ex 15130Mali, 11970, 11790Mali(heard), 9625, 8260; 1730-18 Hausa 15110NF ex 15130Mali, 11790Mali, 11445, 8260; 1800-1830 Hausa (listed) 15110NF ex 15165, 11790, 11445 (all heard), 8260; 1830 AA 15110NF (weak here) (not shown, but listed in WRTH); 1930 PT 15110NF(Heard but not listed), 8345, 7385; 2000 EG 15110, 11715, 11515, 9440; 21 CZ(not listed); 2130 FR 15110NF(Heard), 15100, 11975, 4020; 2230 FR 15110NF & 15330(both heard), 4020; 2230-23 Standard CH 15110NF//15330 (Heard), 11685, 8260, 7590, 7190, 6165, 6140, 5220. (WBI 9/6 & Heard observations are mine. Hope that helps you. (bmm))

NAMIBIA - United Nations radio broadcasts via SWABC - Radio Netherlands, Hilversum, in English 1150 gmt 20 Jul 89. Excerpts from "Media Network" report: The United Nations has begun broadcasting in South-West Africa/Namibia but not over their own transmitters. At the moment they have a five-minute information service on weekdays, and it is aired by the facilities and various services of the South-West African Broadcasting Corporation...The morning broadcast from UNTAG (United Nations Transition Assistance Group) Radio can be heard just after 0500 UTC on shortwave...3270 and 3290 kHz. (WBI 28/7) 7189.5, R. South West Africa(t), 0548-0615, Believed to be the one here w/s/on around 0530, bilingual pgms in EG/Afrikaans. IDs in Afrikaans just before domestic news at 0600 but not 100% clear. (Kirk Allen, OK in "Fine Tuning" 527, 17/8)

NETHERLANDS - Radio Netherland freq changes for EG Broadcasts per Jonathan Marks on "Over To You" Program on 19/8: As from Sunday 24/9: 0730 Australia/New Zealand. 9630 will remain but dropping other 31MB outlet in favor of 15560NF (via Bonaire). 1030 - to Australasia moving to 9505NF. 1130 - S. Asia changed to 21615NF. 1630 - 6020(Madagascar) dropped. 15375NF t/S.Africa & 15570 to E.Afr. 0330 - WCNA -dropped 6165 & moving up to 11720NF and 9590 remains. (both via Bonaire). Media Network Topics: 14/9 - "British Forces Radio"; 21/9 - News edition & news from Andy Sennitt; 28/9 - "Vintage Radio" - Not a repeat, but more from the expanding world of radio collecting. We look at the Wrlitzer (yes they did make radios) and how market for old radios seems to be changing. (Direct)

NIGERIA - Radio Nigeria-Lagos Channel 1 - Domestic Service. 4990, 3326. Multilingual. 0430-0440 S/on & freq announcement. 05-0505 News Summary; 06-0630 News (relayed throughout Nigeria); 0815-09 Educational service; 09-0910 News; 0910-0915 Mon-Sat Press review, 0915-10 (Mon-Fri) Educational service, 10 freq change add 7285 dropped 3326. 1015-1045 "Behind the Headlines", 11-1103 News summary, 1115-1155 (Mon-Fri) Educational service, 12-1215 News, 1215-1220 Mon-Sat Political feature, 14-1405 News summary, 1445-15 Political feature, 15-1530 News (relayed throughout Nigeria), 16 freq change 4990, 17-1715 News about Africa 4990, 3326; 1715-18 Political, news and current affairs programs; 18-1810 Sat&Sun News, 18-1830 Mon-Fri "News Panorama", 1810-1815 Sat&Sun "News Analysis", 1915-20 "Across the Nation" - news magazine, 20-2003 News summary, 21-2130 News (relayed throughout Nigeria), 22-2203 News summary, 23-2305 News summary. 2309\* (WBI 4/8)

PAPUA NEW GUINEA - Eric Swedberg, OR received a QSL Card (He QSL'd them as Radio West Sepik) from R. Sandaun, Vanimo in Sandaun Province. v/s Gabriel Deckwalen. Address: R. Sandaun; PO Box 37, Vanimo, Sandaun Province, Papua New Guinea. (So apparently they have changed their name)

PERU - 4775.0, Radio Tarma, Tarma, 1008-1110 f/p on 10/6. Pgm "Alegre Amanecer" with music of Peru "Chicha". At 1030 & 1059 ID "OCX4J 1510kHz onda media banda de 198 metros, OCX4E 4775 kHz onda corta en la banda tropical de 60 metros, y OCW4A 99.3 MHz frecuencia modulada estereo, transmite Radio Tarma desde Tarma, Peru en America del Sur." After the national anthem, pgm "Musica Folklorica Nacional". (Takayuki Inoue Nozaki, Tokyo, Japan, ibid.)

SRI LANKA - 7225, 1428, DW, IS/ID, M w/Trincomalee, Sri Lanka ID at 1429 into Urdu Service on 8/15 (bmm)

SOUTH AFRICA - Radio RSA on 4945 from \*0255 IS & Afrikaan pgm to Namibia, very strong on 7/8//4810 also good, but old 6130 no longer heard. 4810 also heard from 0100 w/music, EG & Afrikaans talks to 0300, but not daily. What is ID? (Ernie Beher, Kenora, Ontario)

SWAZILAND - Trans World Radio Swaziland testing to India on alternate days on 11720 & 15190 playing religious music and announcements in Urdu and Hindi. Asking for reception reports. (Victor Goonetilleke, Sri Lanka via Radio Nederland's "Media Network" 7/27) TWR Manzini 15190 from 1430 hymns & EG ID announcing "test broadcast" on 28/7; probably Urdu/Hindi pgm for S.Asia. (Ernie Beher, Kenora, Ontario) & also 11720 at 1441 w/religious music and IDs at 1443 & 1501 said test transmission to India, asking for reports and gave address in Swaziland on 29/7. (bmm)

SWEDEN - Radio Sweden HF Bdcst Sked 24/9-24/3: Swedish: 0030-01 9695H2 11705H1 LAm; 0130-02 7225H1, 9640H2 S.Asia; 03-0330 9695H2, 11705H1 NA; 05-0715 (Mon-Fri), 0530-09 (Sat), 06-10 (Sun) 6065K Eur; 05-0715 (Mon-Fri), 0530-09 (Sat), 06-10 (Sun) 15390H1 Afr; 1030-11 6065H1 Eur, 9630K Eur, 21690H2 ME; 1130-12 6065H1, 9630K Eur, 21690H2 ME; 13-1330 15190H2 E.Asia, 17740K, 21570H1 S.Asia, Australia; 1430-15 17740K S.Asia, Australia, 17880H1, 21610H2 NA; 16-1630 6065K, 9615H1 Eur, 21655H2 ME; 17-1730 6065K, 9615H1 Eur, 21610H2 NA; 1730-1745 6065K Eur; 19-1930 6065K Eur, 9655H1 Eur, Afr; 2030-21 6065K Eur; 22-2230 6065K, 11705H2 Eur. EG: 01-0130H1 7225, 9640H2 S.Asia, Australia; 0230-03 9695H2, 11705H1 NA; 1230-13 15190H2 E.Asia, 1230-13 17740K, 21570H1 S.Asia, Australia; 14-1430 11905H2 Australia, New Zealand, 17740K S.Asia, Australia; 1530-16 17880H1, 21610H2 NA, 21655K ME; 18-1830 6065K, 7265H2 Eur; 21-2130 9655 H1 Eur, Afr, 11705H2 Eur. PT: 1830-19 6065K, 7295H2 Eur; 21-2130 6065K Eur; 2230-23 9695H2, 11705H1 LAm; 2330-24 9695H2, 11705H1 LAm. FF: 0330-04 9695H2, 11705H1 NA; 11-1130 6065H1, 9630K Eur, 21690 H2 ME; 1330-14 21570H1 S.Asia, Australia; 15-1530 17880H1, 21610H2 NA, 21655K ME; 1930-20 6065K, 9655H1 Eur; GG: 1630-17 6065K, 9615H1 Eur; 1730-18 9615H1 Eur; 20-2030 9655H1 Eur; 2030-21 9655H1 Eur. SS: 0000-0030 9695H2, 11705H1 LAm; 02-0230 9695H2, 11705H1; 20-2030 6065K Eur; 2130-22 6065K, 9655H1, 11705H2 Eur; 23-2330 9695H2, 11705H1 LAm. H1=Horby 1, H2=Horby 2 & K=Karlsborg. (Swedish Telecom Radio Frequency Management)

TAIWAN - New Star(?) Broadcasting Station - History: First noted in April 1977 on 7200 kHz with jamming from China. And also noted on 17050v(2nd service), 10725(1st service) and 5995kHz(1st service) around 1977-1978. However 7200 and 5995kHz have disappeared soon.

In March 1980 it added a freq of 8400kHz to the 1st service. And in August 1980, it started a new service named as the 3rd service on 8400kHz, sharing transmission time with the 1st service.

Most of the services had been jammed by transmitters in mainland China before 1982, when all jammers in China has been stopped at the same time for half a year.

This station had broadcast a new program named as "Selections of song" about 1 hour/day around May 1985. Broadcast songs were of popular songs and patriotic songs of Taiwan. However this special program disappeared soon.

8400kHz was QSYed to 8300kHz and moved again to 8410kHz in Oct through Nov 1985. And 9725kHz was added to the 3rd service in Nov 1985.

In Jan 1986 this station absorbed BOT/10K Radio, which was also #s station in Taiwan, that station was first noted in Feb 1977 on 11310vkHz and 8300kHz, but 11310vkHz has been off the air since July 1985. The absorbed program has been named as the 4th service, operated on 8300kHz.

8410kHz has been discontinued since Jan 1986. On the 2nd service 15388kHz has been added since Feb, however 17056kHz has ceased to be heard since May 1986. And on the 1st service freq change has been done as well 11430kHz was added in July and 10725kHz has been off since Oct 1986.

5995 and 7200kHz are ex-freqs of V. of Rightousness. This station, whose office was based on Taipei, had broadcast to China with 5995(BEC77), 7200(BEC76) and a MW before around 1975-1976. New Star(?) BS may be broadcast from this facility.

Content of Broadcast: 4 or 5 digit #s in Std. CH. Broadcast by several female announcers. Sometimes by male announcer. The #s are believed to be a code message with a special purpose. The conversion chart is identified out of regular one for telegram in mainland China. It sometimes broadcast a short message in Std. Chinese without #s code, however it is presumed one kind of cryptogram. An example of broadcast; 0900 on Feb 28, 1988: Opening music, ID and opening announcement; Opening music, ID and opening announcement; Message in code; to #576, the 4th telegram of Feb.; to #3678, the 9th telegram of Feb; to #3678, the 10th telegram of Feb.; to #6333, the 2nd telegram of Feb.; to #6333, the 3rd telegram of Feb. Closing announcement. On the opening announcement important informations are announced, that include target unit as #XXXX and telegram number. Pgm sometimes to be over 60 min when it conveys many telgrams.

Schedule: with start time of transmission:

1st service (11430kHz) - 2300, 0000, 0030, 0100, 0200, 0300, 0400, 0600, 0800, 0900, 1000, 1100, 1300, 1400, 1500, 1600, 1630.

2nd service (15388kHz) - 2200, 2230, 2300, 2330, 0000, 0030, 0100, 0200, 0230, 0300, 0700, 0730, 1000, 1100, 1200, 1230, 1300, 1400, 1700.

3rd service (9725kHz) - 2200, 2300, 0000, 0030, 0100, 0200, 0230, 0400, 0500, 0600, 0800, 1100, 1300, 1400, 1500, 1600, 1630.

4th service (8300kHz) - 2200, 2300, 2330, 0000, 0030, 0100, 0130, 0200, 0230, 0300, 0430, 0500, 0530, 0600, 0630, 0700, 0800, 0900, 0930, 1000, 1030, 1200, 1230, 1300, 1330, 1400, 1500, 1600, 1630, 1700.

Without name of the service (11430 and 9725kHz) - 0700, 1200(repeat of 0700). 2 frqs run in parallel.

All monitored in 1986. Recent sked is not investigated. (Tetsuya Kondo, Yokohama, Japan)

Ref LN "Aug 89" Taiwan - New Broadcast to mainland China observed:

Now running to 1659\* on 11725//9610 as monitored on 8/23.

Interpreter listened to parts of tape and told me it was talk about Taiwan. 11725 is best freq for me. (bmm)

THAILAND - Radio Thailand First Programme Sked - Thai 7115, 6070, 4830 \*22-16\* w/frequency changes at 0700 drop 4830 & @1000 add 4830.

CLANDESTINES: Voice of the Chinese People - First observed in July 1989, although there is some evidence that the station has been in existence since about 1979. Each of the later transmissions is a

repeat of the 1200 gmt broadcast. Programmes are hostile to the Beijing Government and possible emanate from Taiwan. Sked: Fri & Sat in Standard CH: 12-1210, 1230-1240, 13-1310, 1330-1340 on 1235MW (WBI 4/8) Maybe someone in Asia give could us a report on this? (bmm)

Voice of The PLA - This radio station, which described itself as the Voice of the People's Liberation Army (Standard CH: Jiefangjun Zhi Sheng), broadcasts material hostile to the Chinese Government. Voice of the PLA shares a transmitter with Radio Spark, Contingent of Proletarian Fighters and October Storm. These radios have broadcast frequencies used in the past (1984/85) were 9659.5, 9267.6 or 7524.6 kHz. In 1984/85 this radio broadcast its 10-minute programmes between 09 & 1130 gmt. Voice of the PLA is believed to operate from Taiwan. Sked: 14-1410, 1415-1425, 1430-1440 in Std. CH on 7185 (WBI 11/8)

Radio SNM - Observations on new Somali opposition radio. Monitoring research 27-28 Jul 89. On 27th and 28th July, a radio station broadcasting in Somali was observed on 6470 kHz at 1500-1700 gmt. The station identified itself as "Radio SNM", the voice of the Somali National Movement". The programme, which was hostile to the Somali Barre government, consisted of recitations from the Koran and other religious features, Somali music, commentaries and battle reports. (WBI 4/8) and WBI 11/8, Station also identifies itself as "Radio Halgan" and "Radio Hargeisa". Monitoring research 2-3 Aug 89. On 2nd August, this radio station was found to be using 6516 kHz instead of 6470 kHz for its 1500-1700 gmt broadcast. During the transmission the station referred to itself as "Radio Hargeisa". Radio Hargeisa is a regional station in Somalia which operates on 7120 kHz. On 3rd August, however, in what was possibly a slip of the tongue, the closing announcement stated "Radio Halgan, Radio SNM, the voice of the Somali National Movement". Radio Halgan, which supported both the Somali National Movement and the Democratic Front for the Salvation of Somalia, broadcast from transmitters in Addis Ababa, Ethiopia, and was last heard on 6th April 1988. (WBI 11/8)

Somali National Movement Sked - This station describes itself as the Voice of the Somali National Movement, was first observed on 27th July 89 but had probably been in existence for about one month. On occasions, the radio refers to itself as "Radio Hargeisa" and "Radio Halgan" and may have some connections with the former Radio Halgan variation. Radio SNM Sked: 15-17 daily 6470/6516-v (WBI 11/8)

Voice of Oromo Liberation - Monitoring research 24 Jul 89 - On 24th July, the Voice of Oromo Liberation, which broadcasts against the government of Ethiopia from a transmitter believed to be in Sudan, was observed at 1530-1600 gmt on 9435kHz. It formerly broadcast on 9550 kHz, but had not been traced on that frequency since 24th June.

Since the coup in Sudan on 30th June, the transmitter on 9435kHz carried programmes from Radio Omdurman, although it had not been heard for several days prior to 24th July. Before 30th June, this transmitter broadcast programmes from the army-run National Unity Radio. (WBI 28/7)

Radio Voice of Ethiopian Unity - The Ethiopian opposition station, Radio Voice of Ethiopian Unity, has not been heard since the coup in Sudan on 30th June. The transmitter on 9435 kHz, which previously carried Radio Voice of Ethiopian Unity from 1800-2000 gmt, now relays Radio Omdurman's general programme. (SBI 21/7) but on 27th & 28th July, a broadcast in Amharic from Radio Voice of Ethiopian Unity was observed from 0400-0500 gmt on 9435 kHz. The transmitter believed to be located in Sudan and has also carried programmes from the Voice of Oromo Liberation from 1530-1600 gmt. Transmissions from Radio Voice of Unity continue to be heard on 9435kHz at 1800-1830 gmt in Tigrigna, 1830-1900 gmt in Oromo and 1900-2000 in Amharic.

On 31st July, a relay of Radio Omdurman's General Programme was heard on 9453 kHz from 1400-1800 gmt. (WBI 4/8)

The Voice of The Communist Party of Iran - was heard on 4007.25 kHz until 1900 w/coded messages after the transmission. The programme consisted of comments with Greek and Peruvian (or Andean) music inbetween. (Franz Suss, Romania via "DSWCI" Shortwave News Aug 89)

Voice of the Tamil Nation - Broadcasting in Tamil w/no mention of "Elam" on 7050, 7105, 7125 at 0130-02 and 0300-11. Frequency changes day by day. It is not super strong but heard locally., (Victor Goonetilleke, Sri Lanka via RN's Media Network 7/27)

Radio Magallanes, sked until 2/9: 0100-0129 on 15475 (exc. Wed and Sat), 15510, 15520, 15585, 11860, 11890; 0230-0259 on the same freqs. (Grigory Grigoriev, USSR via "DSWCI" Shortwave News Aug 89)

10870, 1613-1635, R. Iran Toilers, Farsi talks w/mention of Khomeini, interspersed with music on 9/6(Frank A. Baldwin, UK, via "DSWCI" Shortwave News, Aug 89)

15700, \*0457, The National Front Line of the People of Libya to Free Libya (Sowt Al Shaab Alleebee, Sowt Al Jabha Al Shaabiye Llinkaaz Lybia) (This according to Syrian Interpreter) ME music, fanfare music at 05 then M ID "Huna" w/above ID in AA amidst "fanfare" music then M brief talk into Quaran at 0502 on 10/8. Announced Sked of 5PM on 11825kHz and 9PMkHz on 9500. WBI 11/8 shows "Voice of the Libyan People on 3rd August, observed from 05-07 gmt on 13730 and 11825 kHz. The radio, which broadcasts in Arabic, describes itself as the voice of the National Front for the Salvation of Libya. Perhaps Hans Johnson, GA could give us some help on this one! Not //UNID on 15450 (see UNID below) of which I have not been able to get a clear tape of for interpreting. (bmm)

17533, 2336, Voice of Democratic Kampuchea, reactivated, Cambodian, W or M w/talk. Very distorted on 29/7. On 30/7 at 2335, W in Cambodian not so distorted. Sign on is \*2330. (bmm)

CLANDESTINE ADDRESS LIST -by Mathias Kropf 20/7/89 via "DSWCI" Shortwave News, Aug 89:

Voice of Unity, Postfach 2605, D-2000 Hamburg 60, W. Germany.  
Voice of Afghanistan, P.O. Box 1207, Pashawar, Pakistan.  
Radio Freedom, ANC, Caixa Postal 3523, Luanda, Angola.  
Voice of Namibia, GPO 953, Luanda, Angola.

A Voz Da Resistencia Do Galo Negro, Mr. Jardo Muekalia, 1850 K. St., NW, Suite 370, Washington, DC 20006-2202, USA.

Voice of Khmer, c/o KPNLF Office, P.O. Box 22-25, Ramindra Post Office, Bangkok, Thailand or c/o FUNCINPEC Office, P.O. Box 12-1014, Suan Phlue, Bangkok, Thailand.

Voice of the National Army of Democratic Kampuchea - 212 East 47th Street, 24 G. New York, NY 10017, USA.

LA Voz de la Resistencia Chilena, c/o Bureau de la Resistance Antifasciste Chilliense, 13, Rue Rabah Noel, Alger, Algeria.

La Voz de Alpha 66, P.O. Box 420007, Miami, FL 33142, USA.

La Voz del CID, Apartado 8130, San Jose 1000, Costa Rica or Apartado 6019, 08080 Barcelona, Spain or Apartado Postal 76633, el Marquez, Caracas 1070, Venezuela or 10000 SW 37 Terrace, Miami, FL 33165 USA.

Voice of the Broad Masses of Eritrea, EPLF National Guidance Department, Information Branch, Sahel Eritrea, P.O. Box 671, Port Sudan, Sudan.

La Voz Popular, Box 19619, Mexico City 03910, Mexico or Network in Solidarity with the People of Guatemala (NISGUA), 930 F. Street NW, Suite 720, Washington, DC 20004.

Radio Iran, 17, Bd Raspail, F-75007, Paris.

Voice of The Communist Party of Iran and Voice of the Iranian Revolution, O.I.S., Box 50040, S-104 05 Stockholm.

Radio Iran Toilers, P.O. Box 49034, S-10028 Stockholm 49.

Iran's Flag of Freedom Radio, 20, rue de Condorcet, F-75009 Paris France.

Voice of FEDAI, A.C.A., B.P. 43, F-94210 Fontenay-sous-Bois, France.

Voice of the National Salvation, The Front for Saving the Nation, Kankouku Minzoku Minshu Tensen, 1-2-1 Hirakawa-machi, Chiyotaku, Tokyo, Japan.

Voice of The Libyan People, National Front for the Salvation of Libya, Al-Inqad, 323 South Franklin, Box A-246, Chicago 3, Illinois 60606-7093, USA.

Voice of The Free Sahara, B.P. 10, El-Mouradia, Algiers, Algeria.  
Radio Liberacion/Sistema Radio De La Resistencia Nicaraguense, Nicaraguan Resistance, 801 Bricknell Ave 1002, Miami, FL 33131, USA or Centro de Informacion y Evaluacion, Apt. 348-1200, San Jose Costa Rica.

Voice of Palestine, c/o PLO, P.O. Box 3122, Baghdad, Iraq or C.P. 421, Luanda Angola or Said M. Hamad, Assistant Director, Palestine Information Office, 818 18th Street, Suite 620,

Washington, DC 20006, USA.  
Al-QUDS Radio, P.O. Box 10412, Tripoli, Libya or P.O. Box 5092, Damascus, Syria or al-Ghubayrah, P.O. Box 25-74, Beirut, Lebanon or P.O. Box 1397, Aden, Yemen DPR or P.O. Box 6170, Aden, Yemen DRP.  
Radio Venceremos, Apartado 2363, Telcor Los Escombres, Managua, Nicaragua or P.O. Box 7-907, Mexico 7, DF, Mexico or El Salvador Media Project, 335 West 38th str, 5th Floor, New York, NY 10018, USA.  
Radio Farabundo Marti, c/o R. Acuna, Centro do Comunicacion y Ayuda Entre los Pueblos, P.O. Box 26843, Los Angeles, CA 90026, USA (probably no longer in use?)  
Bizim Radyo, Box 16-367, S-10 327 Stockholm, Sweden.  
Radio Truth, Maxwell Thomas, P.O. Box 996, Vienna, VA 22180, USA.

Please note that not all addresses mentioned in this list are known to have produced replies. For further information about QSL politics, verie-signers etc. please refer to more detailed publications, e.g. Krone's clandestine list. (Mathias Kropf, ibid.)

UNIDENTIFIED - Arabic Station on 15450.1, heard since 6/8, from \*0258 AA frequency announcement, NA & Koran, 0400 & 0500 AA news, 2-pip TS on hour; same station also heard from 1630 in AA to 2339\*v on 8/8. Libya was on this frequency for years but this new program is quite different & not //15235 in AA. Need ID. (Ernie Beher, Kenora, Ont.)

PIRATES - William Blight would be very glad to open up the following address as a mail drop for any pirate radio station that desires correspondence with listeners: P.R.M.S., PO Box 6527, Baltimore, MD 21219, USA.

7415, KRUD (presumed), 0233-0241\*, Comedy bit w/Mr. Roachclip, rock song, carrier cut. Fair. (Richard D'Angelo, PA via "Fine Tuning 527, 17/8) & also heard 0425-05 w/rock music and several IDs. DJ's name is Omega man. Address given as Beaver Falls, PA, mail drop on 4/8 (Jim Renfrew, NY)

Falling Star Radio - 6240, 0215-0252+. Relay of KPRL FM (pirate) in New York City. Pirate Joe played an interesting combination of classical music and long commentaries against Chinese government. Said "Falling Star Radio Stands for Peace and Freedom" on 19/6 (Andrew Yoder)

Radio Angeline -7415, 0308-0352\*. I finally heard this after years looking. Played lotsa 60's movie themes (Peter Gunn, Good, Band, & Ugly, etc). Pro-sounding M w/EG accent read strange poetry over top songs. Very good sounding production & transmitter sound. Kinda like a warped version of BBC on 24/6. Address is: P.O. Box 40554, Washington, DC 20016 (Andrew Yoder, PA)

Radio Comedy Club Int'l - 7415, 0214-0232\*. Lots of comedy skits & songs. One skit was about ordering at a fast food restaurant. S/off w/"Whoop-Whoop" IS. QSLs either via Box 5074, Hilo HI 96720 or Beaver Falls, PA address. Got a clown sheet (#3) for this program already! (Andrew Yoder, PA)

Radio USA -7415, 1916-1947\*, DJ Mr. Blue Sky w/Punk & Comedy music and mostly comedy skits. Announced Memorial Day (sic) Show w/segments of old programs. Hilo, HI address on 1/7 (Andrew Yoder, PA)

RFM - 7400, 0218-0241\* on 1/7 and 7400, 0334-0347\* on 2/7. Heard music by Criss Cross and Alan Parsons, but mic audio was low and transmitter audio tinny. S/Off w/"That's All Folks". If station operator is reading this, please send QSL to: Andrew Yoder, 3007R, 4th Ave, Beaver Falls, PA 15010)

Samurai Radio - 7445, 0358-0430\*, Haven't heard these guys since 84/13/8. Fun, live show of mostly pop/rock music. Had spots for the Independence Day broadcast. Announced tests on 15200 kHz. Fair signal on 5/7 (Andrew Yoder, PA)

UNID PIRATE - UNID on 7/2 at 0058-0106:20\* in EG. ID by M as "The Voice of ??? ("Sex"?). Beaver Falls, PA address given. Fair w/QSB moderate to severe. Song about Pirate radio and off. (Mike Hardester, VA)

DXERS DATES - 10/9-National Day-Belize; 11/9-National Day-Chile; 16/9 - Independence Day-Papua New Guinea; 17/9 - National Heroes Day, Angola; 22/9-Independence Day-Mali; 24/9-Anniversary of Third Repub-Ghana; 30/9-Botswana Day (John Bryant, OK) 73's *Bruce*



# QSL REPORT



Please send all reports to:

Sam Barto  
47 Prospect Place  
Bristol, CT 06010 USA

ABU DHABI: UAE Radio 11985 f/d folder cd. in 35 ds.  
v/s Ahmed A. Shouly, Director.(Washburn-ME). 13605  
p/d form ltr. in 27 ds. for 1 IRC.(Hosmer-MI).

ALASKA: KNLS 11700 f/d cd. w/ personal ltr. and sked. in 21 ds. for ms.

ALBANIA: Radio Tirana 9500 n/d cd. in 25 ds.(Lemke-ALB). (Woloch-OUE)

ALGERIA: RTVA 15205 via Bouchaoui f/d "Mural" cd. in 45 ds. for a FR rpt.  
and 1 IRC.Schedule rcvd.(Kusalik-ALB).

ANTARCTICA: AFAN 6012 very nice ltr. in 2 mo. for a 79 and 85 reception.  
v/s M.R. Reed, LTN., USN.(Barto-CT).

ANTIGUA: BBC 6195 n/d cd. in 4 mo.(Klinck). 11775 f/d ltr. in 20 ds. for  
\$.1.00(returned). v/s E. Hamblin, Assistant Company Manager.(Kohlbrenner)

ARMENIAN SSR: Radio Yerevan 15180 f/d cd. in 132 ds.(Washburn). 13645 f/d  
cd. in 122 ds.(Turnick-PA).

ASCENSION ISLAND: VOA 17810 f/d "Space Shuttle" cd. in 89 ds. v/s Kath-  
ryn Ziehm, Frequency Division.(Washburn-ME).

ASIATIC RUSSIA: Radio Moscow 9540 via Petropavalovsk-Kam-  
chatsky f/d "Lenin Mausoleum" cd. in 60 ds.  
w/ schedule.(Weber-OH).

AUSTRALIA: VNG 5000 via Llandilo f/d cd. in 18  
ds. for 1 IRC. v/s Marion Leiba.(Hosmer-MI).

Naval Time Signal Station 12982 via Humpty  
Doo ltr. in 16 ds. for 1 IRC.(Darling-PNG).

BELGIUM: BRT 17595 2 f/d cds. of "Gerard David  
Monument" and "Painting" cds. in 20 and 31 ds.

w/ sked.(Lemke). 9925 f/d "Lacemakers" cd. in 7  
wks. w/ stamps.(Klinck). f/d "Free Mason's Temple"

cd. in 1 mo.(Lane-IL). f/d "Grand-Place, Brussels"  
cd. in 22 ds.(Lane). f/d cd. in 77 ds.(Davisson-OH).

17555 f/d "Brugge-Bruges" cd. in 46 ds.(Davisson-OH).  
RTBF Radio 4 25645 f/d "Grosser Market" cd. in 22 ds.

w/ decal and schedule.(Kusalik-ALB).

BONAIRE: Radio Nederland 6165 f/d "Satelite" cd. in 36 ds.  
(Lane). Trans World Radio 9535 and 11930 2 f/d "25th

Anniversary" cds. in 1 mo. for \$1.00. Calendar and stick-  
ers rcvd. v/s Sally Park.(Palmerheim). 11815 same cd. in  
25 ds. for 1 IRC.(Hosmer-MI).

BRASIL: RadioBras 11745 f/d cd. w/ schedule and sticker in 65  
ds. for \$1.00.(Connor-PA). Radio Bandeirantes 11925 p/d ltr.

w/ sticker in 36 ds. for a PT rpt. and ms. v/s Salomao Esper.  
(Turnick-PA). Radio Clube do Para 5045 f/d prepared cd. w/ sta-

tion stickers in 57 ds. for a PT rpt. and ms. v/s Ronald Pastor.  
(Turnick). Radio Gaucha ZYE850 11915 f/d folder cd. in 2½ mo. for

a PT rpt. and ms.(Palmerheim-MN). Swiss Radio International 17730  
via RadioBras f/d ltr. in 16 ds. v/s Bob Zanotti, SRI DX Editor.

(Kusalik). RADIO Cancao Nova 4825 f/d blue/green "Clock" cd. in 23  
ds. for a PT rpt.and \$1.00.

(Hoffman-PA).

BULGARIA: Radio Sofia 11720  
f/d cd. w/ schedule in 110  
ds.(Connor). 15290 f/d cd.

in 39 ds.(Lane). Committee  
for TV and Radio 7670 via

Stoinik f/d "RS" cd. in 2 mo.  
w/ schedule.(Barto-CT).

CANADA: RCI 17820 f/d cd. in 13  
ds.(Lane). Radio Austria In-

ternational 6015 f/d "Costume  
Style" cd. in 46 ds.(Lane-IL).

CKZY 6160 f/d cd. in 12 ds.  
for ms.(Hosmer-MI).

**RADIO ZARACAY**  
EMISORA MULTITUDES  
PRIMER LUGAR EN SINTOMA NACIONAL  
Sta. Domingo de los Colorados ECUADOR

COMO  
ZARACAY  
NO HAY!

via Manfredini

FRECUENCIA:  
865 KC.  
ONIA NLDA  
3.395 KC.  
ONIA CRTD

**ADVENTIST WORLD RADIO**

**AWR**

ADVENTIST  
WORLD  
RADIO





NOTE: Richard Lemke in Alberta, Canada sent along the address for La Voz de la Resistencia Chilena (as requested by John Wilkins) as c/o Bureau de la Resistencia Chilena, 13 Rue Rabah Noel, Alger, Algeria...Hope this helps.  
Richard got this address from a book called Station Address List - Sept. 1987., prepared by Ravindranath G. Sewdien, c/o Suriname DX Club International.....Thanks Richard.

GERMAN DEMOCRATIC REPUBLIC: Radio Berlin International 15240 and 21540 f/d cd. in 48 ds. (Levison). 9730 f/d "Stralsund" cd. in 65 ds. w/ schedule. (MacHarg-IN).  
Stimme der DDR p/d cd. w/ pennant in 1 mo. for a tape and \$1.00. (Huniwell-NJ).

GERMANY, FEDERAL REP. OF: Radio Free Afghanistan 15370 via Gloria and 17895 via Holzkirchen f/d "Map" cd. in 4 ds. w/ RL/RFE sked. (D'Angelo).  
Deutsche Welle 6145 n/d "Relaisender Sri Lanka" cd. in 139 ds. (name?) 6120 same cd. in 21 ds. w/ sticker and ltr. v/s Peter Singe. (Lemke-ALB)

GHANA: GBC 4915 f/d cd. in 42 ds. (Lane-IL).

GREECE: VOA 15205 f/d "Space Shuttle" cd. in 49 ds. v/s Kathryn Ziehm. (Lane). Voice of Greece 9420 f/d "Taste of Greece" cd. in 21 ds. after 3 f/up rpts. (Turnick). f/d cd. w/ form ltr., schedule and ms. in 33 ds. v/s Kosta Valetas, Director, Programs for Abroad. (Field-PA)

GUAM: KSDA AWR-Asia 11980 f/d cd. #03 in 70 ds. w/ info sheet, pennant and schedule. (Weber-OH). f/d sticker cd. in 25 ds. w/ pennant and sked. (Lane-IL). f/d cd. w/ pennant in 2 mo. for \$1.00. Rpt. was sent to the Hong Kong addr. (Rugg-QUE). 13720 f/d cd. in 37 ds. for 2 IRCs. Sent to H.K. but reply came from Guam. (Hosmer).  
KTWR 11805 f/d cd. in 41 ds. (Hazzard). f/d cd. in 290 ds. (Darling). 11650 f/d "Map" cd. w/ personal ltr., paper pennant, page marker, rel. data and schedule in 21 ds. for ms. v/s Bill Damick. I sent them a taped rpt. (Woloch-QUE).

HONG KONG: Radio Television Hong Kong 7290 via Cable and Wireless Ltd. f/d ltr. in 18 ds. for SASE. Addr: G.P.O. Box 597, New Mercury House, 22 Fenwick Street, Hong Kong. Station confirms 30 KW DSB from a Marconi H1200 into a horizontal log periodic beamed to Vietnam. v/s W.S. Kong, Station Engineer. (Darling).

HUNGARY: Radio Budapest 11910 f/d cd. w/ schedule in 5 wks. (Klinck). 9835 f/d "Parliament Building" cd. in 18 ds. (Lemke-ALB).

INDIA: All India Radio 11620 f/d cd. in 50 ds. for ms. (Field-PA).

INTERNATIONAL WATERS: World Mission Radio 6215 via M/V Ross Revenge cd. w/ ltr. and rel. data in 209 ds. for 2 IRCs. Rpt. to Corona address reply from Holland. (Darling). f/d "Dutch Church" cd. w/ sked. in 62 ds. (Weber-OH). 6215 via Radio Caroline f/d cd. in 105 ds. for ms. (Connor-PA).

ISRAEL: Kol Israel 11605 p/d cd. w/ sked. in 5 wks. (Klinck).

ITALY: Italian Radio Relay Service 9860 f/d gray/black cds. in 44 ds. for \$1.00. (Kusalik-ALB).

JAPAN: JJJ 15000 f/d cd. in 16 ds. for 1 IRC. (Hosmer-MI).

JORDAN: Radio Jordan 9560 f/d cd. in 4 mo. after a f/up rpt. w/ stamps. (Klinck). f/d "Map" cd. w/ sked. in 8 mo. for 1 IRC. (Kohl-brenner-PA). f/d cd. in 199 ds. w/ sked. (D'Angelo-PA). f/d cd. in 107 ds. after a f/up rpt. Sticker and sked rcvd. (MacHarg).



**R.N.I. RADIO  
NEW YORK  
INTERNATIONAL**  
Mr. Richard A. D'Angelo  
2216 Burkey Drive  
Wyomissing, PA 19610

Dear Richard,

Hi! Thanks for your letter and reception report! I'm really happy you were able to pick us up!

As you've probably heard by now, R.N.I. was closed down when our ship the Sarah was boarded by the United States Coast Guard along with the F.C.C. Two of our staff members have been brought up on charges and they have their next court date on August 27th. We'd really like it if you'll support us through this and if you'd like to help us, you can write to your congressman, write to the F.C.C. and most of all, WRITE US!! Let us know you're still out there and with us from time to time.

Enclosed is our QSL card, again, thanks alot for your reception report which we really appreciated! R.N.I. was operating on several frequencies including 6.740 shortwave, 1620 medium wave (AM), 103.1 FM Stereo and 190 KHz longwave. If you would like technical information on R.N.I., write us back and put the letter to the attention of the engineer. Please send us return postage when you write us. Thank!!!

Anyway, thanks again and thanks for your continued support and keep in touch!!



**KENYA** Voice of Kenya 4934 f/d aerogram ltr. in 3 mo. for \$1.00. (Eckert-PA).

**KUWAIT:** Radio Kuwait 15345 f/d folder cd. w/ sked. and calendar in 3 mo. (Klinck).

**LESOTHO:** Radio Lesotho 4800 f/d cd. in 145 ds. for ms. (Rugg-QUE).

**LIBERIA:** VOA Monrovia 15600 f/d cd. in 120 ds. (Hazzard-PA).

**LITHUANIAN SSR:** Radio Vilnius 9750 f/d cd. in 120 ds. (Lane-IL).

**LUXEMBOURG:** Radio Luxembourg 15350 f/d cd. in 18 ds. for 1 IRC. (Connor-PA).

**MALAGASY REPUBLIC:** Radio Nederland 15560 rcvd. 2 prepared cds. and 2 f/d station cds., both signed and stamped, in 38 ds. w/ schedule and decal v/s J.A. Ratobimiarana. (Kusalik). f/d cd. in 60 ds. (Hazzard).

**MALAWI:** Malawi Broadcasting Corp. 5995 p/d ltr. in 42 ds. after a f/up rpt. for an 87 reception. v/s H.R. Chirwa. Sent 2 IRCs. (Hosmer-MI).

**MALI:** Radio Beijing 15130 f/d cd. QSLing the 6/4/89 0300 broadcast of Li Dan's famous denouncement of the PLA's attack on Beijing for 1 IRC in 18 ds. I can't believe they actually verified this transmission! (Hosmer). 11715 via Bamako f/d cd. in 18 ds. (Lane-IL).

**MEXICO:** XEQM Tus Panteras 6104.6 f/d ltr. w/ postcards in 85 ds. for a SP rpt. and \$1.00. v/s Arturo Iglesias Villalobos, Gerente General. 250 watts. (Howard-CA). XEWV La Voz de la America Latina f/d cd. w/ personal ltr. along w/ my prepared cd. for a SP rpt. and \$1.00. Also rcvd. a very nice station pennant. v/s Ing. Miguel Angel Barrientos V. (D'Angelo-PA). XEPPM Radio Educacion 6185 f/d ltr. w/ station photo in 68 ds. for a taped rpt. and 2 IRCs. v/s Gustavo Carreno L. (Turnick-PA).

**MONGOLIA:** Radio Ulan Bator 12015 f/d "Radio Waves" cd. in 128 ds. for \$1.00. (Washburn-ME). f/d cd. for

an 88 reception in 79 ds. after a f/up rpt. Nice pennant rcvd. (Field-PA). 7261.6 via Ulan Bator and 4750 via Uliqi f/d cd. w/ schedule in 3 mo. (Barto-CT).

**MOROCCO:** Radiodiffusion Television Marocaine 17595 f/d cd. in 116 ds. for 1 IRC. (Hazzard-PA).

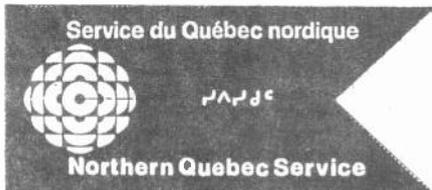
**NAMIBIA:** Radio SWA 4965 via Hoffnung f/d "Country Scene near Usakos" cd. in 70 ds. w/ sticker and schedule. (Weber-OH)...Txn for the data on this station. I agree with you in that recently there seems to be a little confusion on Radio RSA or Radio SWA on this freq....Sam.

**NEW IRELAND:** Radio New Ireland 3905 p/d date only ltr. in 34 ds. after a f/up for an 86 reception. Ms. were sent w/ my report. v/s Otto A. Malatana, Station Manager. (Hosmer-MI).

**NEW ZEALAND:** Radio New Zealand International 9850 f/d "Pennant" style cd. in 26 ds. w/ schedule. (Hazzard-PA).

**PAKISTAN:** Pakistan Broadcasting Corporation 4880 via Quetta f/d signed and stamped cd. in 27 ds. after a f/up rpt. Schedule rcvd. v/s Magbool Ahmed, Engineer-Manager. (Kusalik-ALB).

**PAPUA NEW GUINEA:** Radio Gulf f/d 2 page ltr. in 2½ mo. for a taped rpt. and ms. v/s Mark Auhova. (Huniwell-NJ).



**RADIO K'EKCHI'**

TVOC 1.845 KHZ 60 METROS  
FRAY BARTOLOME DE LAS CASAS, 16015 ALTA VERAPAZ, GUATEMALA

**QSL**

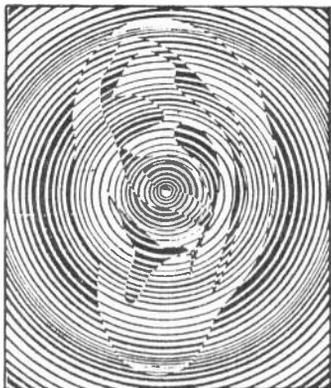
**Certificado de Sintonía**

Sr. CHRISTOPHER RONALDO LOBDELL

Muchas gracias por su informe de recepción. Su carta fue de gran ánimo y estímulo al personal de Radio K'ekchi'. ¡Qué Dios le bendiga ricamente! Transmitimos con un Gates BP-5 y una antena bipolar con reflector.

Tenemos el gusto de confirmar su sintonía a nuestra transmisión el día 19 de octubre de 1988 a las 04:17 horas CST hora local.

*Alfonso Juan Ximé*  
GERENTE



**QSL** Südwestfunk  
via Chela Lobdell  
Arbeitskreis des Fernschichten Pochtes

PERU: Radio Huancavelica OAX5V 4885 f/d ltr. w/ business cd., station and studio photo and postage stamps for an 83 reception. v/s Carlos Raul Angeles Duran, Locutor and Ernesto Lazo, Periodista. All in 7 wks. for a SP rpt.(Barto-CT).  
PHILIPPINES: Radio Veritas Asia 15445 f/d "Many Voices, One Heart" cd. in 23 ds. for 2 IRCs. Also rcvd. stickers, pennant, rpt. forms and newsletter.(Hosmer-MI). 9595 via Palauig cd., w/ pennant and report forms in 420 ds. (Darling). VOA Poro/Tinang 9525, 11965, 11760, 15305, 17820 and 17735 cds. w/ pennant in 32 ds.(Darling).  
RIO MUNI: Radio Africa 7189 via Bata f/d cd. in 6 wks. for \$1.00. QSL rcvd. via the CA address.(Kohlbrener-PA). 7188.8 f/d cd. in 43 ds. from Pan American Broadcasting formerly Pierce Communications. Also rcvd. schedules for rel. programs on Radio Africa, WRNO and KUSW (all arranged by PAB)(Hosmer).

7188 f/d cd. in 30 ds. for ms. sent to CA addr.(Hazzard-PA).  
RWANDA: Deutsche Welle 17860 n/d cd. in 45 ds.(Lane-IL).  
SAIPAN: KYOI 11900 p/d "Christian Science Center - WCSN" cd. in 24 ds. w/ schedule.(Lemke-ALB).  
SINGAPORE: BBC Far Eastern Relay Station 15360 f/d cd. in 45 ds. for \$1.00.(Hazzard-PA). f/d "Antenna Farm" cd. in 22 ds. for \$1.00.(Kohlbrener-PA). n/d cd. in 2 mo. (Klinck).  
SOUTH AFRICA: Radio Orion 4810 f/d "SABC" cd. w/ sticker and schedule in 38 ds. for 1 IRC.(Connor-PA). Radio RSA 21590 f/d "Golden Gate Highlands Park" cd. in 20 ds.(Lane-IL). f/d "Drakenberg" cd. in 16 ds. w/ schedule.(Lane). f/d "Blyde River Canyon" cd. in 22 ds. w/ schedule.(Lane).  
SPAIN: Radio Beijing 9690 via REE f/d "Bridge and Park in Beijing" cd. in 1 mo. w/ usual assortment of goodies. (Kusalik-ALB). f/d "Kunming Lake" cd. in 48 ds. w/ schedule and report forms.(Lemke-ALB). Spanish Foreign Radio 9630 f/d "Expo 92 - Complex" cd. w/ schedule and report forms in 42 ds.(Lemke-ALB).  
SPANISH MOROCCO: Radio Monte Carlo 15465 p/d cd. in 28 ds. after 3 f/up rpts. in FR for \$1.00. (Kusalik-ALB).  
SRI LANKA: Deutsche Welle 11945 via Trincomalee n/d "Sri Lanka Relay" cd. in 30 ds.(Hazzard-PA). VOA Colombo 15250 f/d cd. in 20 ds.  
SUMATERA: RRI Bukittinggi 3232 f/d prepared cd., signed (Darling). and stamped, in 28 ds. for an 85 and 86 reception. v/s Effendi, Kepala Stasiun / Secretary. Also sent \$1.00.(Kusalik-ALB).  
SWEDEN: Radio Sweden International 11705 2 f/d "50th Anniversary" cds. w/ schedule and stickers in 31 ds.(Lemke-ALB). 21610 f/d "Gamla station Old City" cd. in 20 ds.(Davisson-OH).  
SWITZERLAND: International Committee of the Red Cross 12035 f/d cd. in 42 ds. for 2 IRCs. Also rcvd. schedule, sticker and station history.(Weber)  
Swiss Radio International 9725 and 13685 f/d "Bellinzona - The Cathedral" and "The Castello Grande" cd. in 16 ds. w/ schedule and stickers. (Lemke-ALB).



AFN logo on the left and a circular logo on the right. Below them is the text: "CONFIRMING YOUR RECEPTION OF THE AFN Shortwave transmitter on 5470 kHz, using 750 watts, 14 Feb 56 AMERICAN FORCES NETWORK, EUROPE". At the bottom, it says "via Ernie Behr" and "AFN-Serving American Forces in Europe".

TAHITI: RFO 15170 f/d cd. w/ station info. in 4 mo. for 2 IRCs.9connor)  
TAIWAN (Republic of China): BSF 10000 f/d "Clock" cd. in 106 ds. for a taped rpt.(Blight-MD). 15000 f/d "Dr. Sun Yat-sens Memorial Hall" cd. in 50 ds. for \$1.00.(returned) (Kusalik-ALB).  
THAILAND: Radio Thailand 9655 and 11905 p/d cd. in 20 ds. for a f/up rpt. on an 83 reception. Also rcvd. personal ltr.(Hosmer-MI).

PEOPLE'S DEMOCRATIC  
REPUBLIC OF YEMEN  
BROADCASTING SERVICE  
P. O. Box 1222  
STRAZA PORT, ADEN  
P.D.R.Y.

PLUG 6005 DATE POWER 400 w.w.

TO: DONALD M. HOSMER

Your Reception Report of the 1st January 1984  
has been checked and found correct/accurate.

Remarks: Many thanks for your  
letter.

Abdullah Nasser Yessad  
Signature

DEMOCRATIC YEMEN BROADCASTING  
اذاعة اليمن الديمقراطية

**TONGA:** Tonga Broadcasting Commission 5030 ltr. in 20 ds. for \$1.00. v/s M. Indiran, Chief Engineer.(Darling).

**TURKEY:** Voice of Turkey 9445 f/d cd. in 18 ds. w/ schedule, report forms, pennant and sticker.(Lemke-ALB).

**LETTERS:** Jerry Klinck from West Seneca, NY reports that he will be doing his summer DX catches from the beach...more young ladies there! Sometimes

you just got to get out of the shack...Sam. Don Hosmer says he is now back into the DX/QSL hunting. After a two year break I have just sent out several reports. Don also reports that he is the QSL Editor for MARE. Don states that from now on he is strictly a DXer. Good!...Sam. Charlie Hoffman reports that HCJB has gotten permission from the station Manager of Radio Nacional del Ecuador to QSL their relay broadcast via HCJB on 15270 with a special QSL card. This was reported on HCJB DX Party Line. Kurt Cox in Leaburg, OR says that this was his first QSL report in over a decade. Kurt uses an SX-190 and hopes to become a very active NASWA member. Father John Eckert was extremely pleased with his recent log of Kiribati. John needs Kiribati for his 10th country for the DX Pacifica award...he has given up hope on hearing the Cook Islands. John also reports that it only took 17 days to QSL Radio Panamerica...perhaps my signature as Padre Juan helped out a bit. Hi!

**UKRAINIAN SSR:** Radio Kiev 9860 f/d cd., schedule, stamps and station pennant in 8 wks. for 1 IRC.(Klinck). 11675 f/d "Table Linens" cd. w/ schedule in 48 ds. (Levison). Radio Moscow 15290 via Simferopol f/d "Rowing Canal" cd. in 46 ds.(Weber-OH). 15290 and 11730 f/d cd. in 45 ds.(Kremer-IN). 15135 via Vinnitsa f/d "Lenin Mausoleum" cd. in 46 ds.(Weber-OH). 11850 f/d cd. w/ schedule in 45 ds.(Kremer-IN). f/d "St. Basils Cathedral" cd. in 46 ds.(Weber-OH). 11750 via Lvov f/d "Rossiya Hotel" cd. in 46 ds.(Weber). 9765 f/d cd. in 45 ds.(Kremer-IN).

**USA:** VOA Bethany 17800 f/d "The White House" cd. in 17 ds. w/ schedule.(Lemke). f/d "U.S. Capitol Building" cd. w/ report forms in 19 ds.(Lemke). f/d "VOA Master Control Room" cd. w/ sticker and schedule in 14 ds.(Lemke). 17785 via Greenville f/d "VOA Newsroom" cd. in 12 ds. w/ schedule and sticker.(Lemke-ALB). 15425 and 5985 via Delano f/d cd. in 32 ds.(Darling). WSHB 11980 p/d short personal ltr. in 7 ds. after a f/up rpt. v/s C.E. Evans, Station Manager.(D'Angelo-PA). 17555 f/d prepared cd. in 9 ds. for an SASE. (Davis-NM). f/d prepared cd. in 103 ds. for ms. v/s Thomas H. Nickell, Manager - Administration. My report was sent to WCSN.(Davis). 15205 f/d prepared form ltr. in 104 ds. for an SASE.(Blight-MD). WWCR 15690 p/d cd. in 43 ds. for \$1.00.(Kohlbrenner-PA). p/d "Globe" cd. in 2 mo. for ms. v/s "George".(Palmerstheim-MN). same in 36 ds. for \$1.00. (Kusalik-ALB). WRNO 15420 f/d cd. w/ schedule, ltr. and station stickers in 2 mo.(Klinck). WYFR 6065 f/d "Staff" cd. in 20 ds. for ms. and 1 IRC. Also rcvd. schedule.(Lemke). KVOH 13695 f/d "Master Control Room" cd. in 16 ds. for ms. Schedule and sticker rcvd.(Lemke-ALB).

**USA (Pirate):** Free Radio One p/d "Certificate" cd. in 9 wks. for a taped rpt. and \$1.00.(Huniwell)



NEWS MUSIC via Davis and Wilkins

YOUR QSL CARD FROM

**RADIO JAMAHIRIYA**

VOICE OF THE SOCIALIST PEOPLE'S LIBYAN ARAB JAMAHIRIYA

BROADCASTING DAILY IN ENGLISH ON 11816 Kc/25-M SHORT WAVE FROM 22.30 - 24.00 MTS. G.M.T.

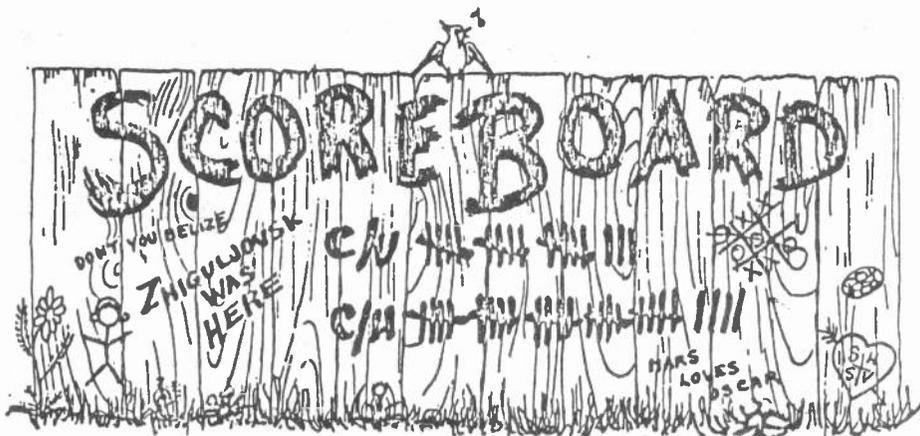
COMMUNITY AND INDIVIDUALS WHO WISH TO SUPPORT THIS BROADCASTING ARE WELCOME TO WRITE TO:

HEAD OFFICE  
RADIO JAMAHIRIYA  
P.O. BOX 253  
SIPSON - S.P.A.A.A.

EUROPEAN BRANCH OFFICE  
RADIO JAMAHIRIYA  
P.O. BOX 17  
HAMMAM - MALTA

INFORMATION CULTURE





JERRY A. LINEBACK, Editor  
 6361 Shore Dr.  
 Douglasville, GA 30135

September, 1989

Welcome to Scoreboard. A special welcome to several newcomers this month. Please share your DX progress with your fellow DXers through Scoreboard. Please ignore the Castle Street address that continues to appear on the cover of FRENDX. Your mail may be returned if you use that address. Please use the above address on Shore Drive. The Spotlight this month is on North America. C/H=countries heard and C/V=countries verified. Country counts are to be guided by the NASWA Radio Countries List available from Headquarters. You must update at least once a year to remain on the Scoreboard. We thank all who have participated this month. Next deadline will be November 15 for the December FRENDX and the Spotlight then will be on Oceania.

Name, State	Total	NA	Best NA	QSL	
	C/H	C/V	C/H	C/V	
James Young, CA	238	224	23	19	Montserrat
John Tuchscherer, WI	235		28		CKFX 6080
Gordon Darling, PNG	232	225	23	22	R Swan
Edward Kusalik, Alb.	228	225	23	22	Turks & Caicos
William Flynn, CA	224	207	25	25	Greenlands R
Marlin Field, MI	223	222	23	23	CFRX
Jerry Berg, MA	223	221	24	24	Montserrat, dir
Gerry Bishop, FL	223	209	21	20	CKFX
Roland Schulze, FRG	220	205	20	19	R Victoria 250W
Nobuaki Takahashi, Japan	220	187			
Tom Gavaras, MN	219	216	21	21	Greenland
Mitch Sams, KS	218	171	19	18	CKFX Vancouver
Harold Cones, VA	217	203	21	20	LV Mosquita
Terry Palmersheim, MN	215	198	19	19	Greenland
Bill Harms, FRG	215	151	20	16	CKFX
Al Miller, OH	214	207	21	21	Turks
John Sgrulletta, NY	212	212	22	22	CKFX
C. Vernon Hyson, NC	209	196	26	25	KNLS Alaska
Rick Krzemien, CA	209	189	19	18	Greenland
Paul Buer, FL	208	197	22	21	CKFX 6080 10W
Richard Davis, NM	208	197	22	20	Panama HOH7
Steven Lare, MI	208	167	19	18	CKFX
Ron Howard, CA	207	189	21	21	ORFX Martinique
Larry Abraham, MI	206	193	22	21	Greenland
Kirk Allen, OK	204	191	19	18	El Salvador
Kevin Atkins, AL	204	173			
Jerry Lineback, GA	204	106	20	12	Turks

Name, State	Total		NA		Best NA QSL
	C/H	C/V	C/H	C/V	
Jim Uerlings, OR	203	65	18	6	CKZN Nfld.
Del Fye, FL	202	187	20	18	El Salvador
David Swaringen, NC	202	182	18	17	El Salvador
Sheryl Paszkiewicz, WI	201	184	19	18	Grenada
Charlie Hoffman, PA	201	150	19	16	Grenada
Christos Rigas, IL	200	178	19	18	Grenada
John Bryant, OK	199	176	19	16	CFCX
Rowland Archer, NC	198	181	19	18	El Salvador
Donald Hosmer, MI	197	148	20	17	Swan Is.
Nelson George, NC	191	168	17	16	
Stephen Leite, MA	191	163	18	18	CKFX 6080 10W
Gayle Van Horn, LA	190	166	19	17	R Huayacocotla
Harold Sellers, Ont.	190	153	19	19	Greenland
John Huniwell, NJ	189	181			
Tom Daly, NY	186	35	15	5	Windward Is. BS
Kent Willis, KY	183	136	17	14	Greenland R.
Tom Laskowski, IN	174	135	18	15	CKFX 10W
Norman Bobb, MN	174		19	1	KGEI
Bryan Price, KY	173	98			
Ichiro Maruo, Japan	167	98	7	5	Sani Radio
Fred Kohlbrenner, PA	164	128	17	15	CKFX
Kevin Klein, WI	164	71	16	9	Belize
Andy Rugg, Que.	161	140	20	17	WIBS, Grenada
Rev. John Eckert, PA	160	140	16	15	LV Mosquitia
Jim Renfrew, NY	151	111	18	16	R. Venceremos
Greg Hart, FL	147	77	17	10	4VEH, Haiti
Carl Radtke, CA	146	146	18	18	Grenada
Carl Mann, NE	145	124	20	19	Haiti
Peter Dillon, Greece	145	91	15	12	Belize
Jim Streitmatter, IN	145		16		CKZN
Jerry Klinck, NY	144	121			
Thomas Ross, IL	143	122	16	14	CKFX Vancouver
Keiichi Kondo, Japan	143	100	6	6	R. Reloj
Dustin Brann, MO	143	73			
Donna Robinson, IL	141	104			
Jackie Cole, CO	130	93			
David Morby, NY	129	31	15	6	R Luz y Vida
Dale Park, HI	127	37	13	4	Pirate KVHF
Harold Levison, PA	125	92			KNLS
Joe Kremer, IN	120	66	16	10	Belize
Joe Zobro, MI	104	82	15	12	CKZN
Robert Carlsen, OH	81	72			
Dennis Kelly, MI	73	60			
William Blight, MD	70	51	7	4	CHNX

Thanks to all who have shared their totals with us this month. We encourage all NASWA members to share their totals with us through Scoreboard. Remember the next deadline is 15 November and the Spotlight will be on Oceania. Gud DX and 73s.

WANTED OLD BOATANCHOR HAM RADIO LINEAR for restoration: Heathkit  
 HA-10 "Warrior" or KL-1 "Chippewa" and/or power supply; Hallicrafters  
 HT33; Viking Courier, Thunderbolt, or Johnson Kilowatt. Working, semi-  
 working, or decent salvage considered. N2EAW, Nolan Stephany, 3369  
 Lake Road, Williamson, New York, 315-589-8863.



Distributing Editor: Kris W. Field, 431 Babylon Rd., Ambler, PA 19002-2302

**FRENDX CONTRIBUTORS LIST — SEPTEMBER 1989 — DEADLINE 12th of MONTH**

The following members submitted loggings this month:

Brian ALEXANDER, Mechanicsburg, PA  
Norman BOBB, Minneapolis, MN  
Bob BROWN, Lansdale, PA  
Ed CICHOREK, Somerset, NJ  
Conrad DALTON, Indian Valley, VA  
Richard D'ANGELO, Wyomissing, PA  
Peter DILLON, Greece  
Kris FIELD, Ambler, PA  
Harold FRODGE, Midland, MI  
H. JOHNSON, Savannah, GA  
Rufus JORDAN, Pittsburgh, PA  
Fred KOHLBRENNER, Philadelphia, PA  
Joseph KREMER, South Bend, IN  
Harold LEVINSON, Philadelphia, PA  
Ira MARTIN, San Jose, CA  
Tom OVERCAMP, Seneca, SC  
Dale PARK, Honolulu, HI  
Leonard R. PRICE, Annandale, VA  
Lin ROBERTSON, San Diego, CA  
Daniel SAMPSON, Independence, WI  
Roland SCHULZE, West Germany  
John TUCHSHERER, Neenan, WI

XCR 30, Satellit 400  
NRD 525

DX 400  
NRD 525  
R71A + Trap dipole

DX 302, Zenith Transoceanic  
Sony 2010  
HQ 180A, Collins R 388  
R70

FRG 7700  
R 5000 & salvaged rod antenna  
R2000,ATS 803,GE World Monitor  
Modified R70,R-388,SX-28  
FRG 7700, R 1000  
Drake R-7&R-4C,R70  
R70, FRG 7700

That completes a busy month! Thanks again to one and all for their loggings and kind notes. A couple people mention that they are new members. Welcome to Ira Martin and Conrad Dalton and thanks for your loggings!

In the corrections department, I want to make sure I mention Rufus Jordan this month. Rufus submits loggings every month and I missed putting him on the August contributors list. My apologies, Rufus. Thanks for the kind note and for your loggings every month.

It is the purpose of this column to recognize and give credit to all of those who find the time to submit their loggings to FRENDX. If I miss someone or leave something out, please drop me a line and I'll be glad to make a correction.

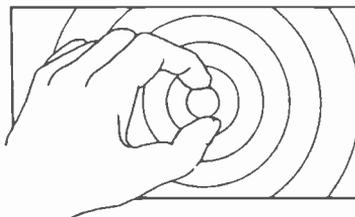
The DX season is rapidly upon us! I don't know about the rest of you, but I'm looking forward to some static-free listening. It's time to make sure the antennas are ready and the shacks are in good order. I'm hoping to cross a few things off my "hit list" this year.

Anyway, enough rambling. Here's to a good month of DX'ing for everyone. Keep those loggings coming!

Until next month,

73 Kris

Don't forget the ANARC Net on Sunday mornings.



# LOG REPORT

## section A

### 2000 to 4899 kHz

Editor: Bob Brown, P.O. Box 591, Colmar, PA 18915

- 3200 **INDIA** AIR Delhi 1915-1930 \* Urdu(?), lcl mx, clsing anmnts, ID (Schulze-FRG 7/2)
- 3210.3 **MOCAMBIQUE** R. Mocambique 1911-1920 PT, ID, //4872.3 political tlk w/mx bridges. (Schulze-FRG 7/16)
- 3220 **ECUADOR** HCJB 0947-1000 Quechua, tlk/mx, ID @ 0959. Fair, hvy QRN. (Bobb-MN 7/15) 0335-0346 (Jordan-PA 8/2)
- 3245 **BRAZIL** R. Clube de Varginha 0004-0025 PT, NAM pops, ID, ads mentioning Varginha. Fair/QRN (Brown-PA 8/17)
- 3250y **HONDURAS** R. Luz y Vida 0320-0403\* SP/EG Religious mx w/choral gaps, solo selectns in EG, tlk in SP. Fair/Ute QRM. (Jordan-PA 8/2)
- 3280.3 **MOCAMBIQUE** Em. Prov. de Sofala 1928-1950 PT, pres. ID "...Sofala Mocambique" African folk mx, strong Ute QRM, weak (Schulze-FRG 7/16)
- 3366 **GHANA** GBC 0533-0555 Non-stop hymn singing, //4915. Fair w/fading. (Bobb-MN 7/9)
- 3472.2y **BOLIVIA** R. Padilla 2340-0100 SP, ID, CP mx w/flutes, CW QRM. (Schulze-FRG 7/15)
- 3915 **SINGAPORE** BBC Kranji \*1100 IS, Bells into lang. (Overcamp-?? 7/13)
- 3930.1n **CAPE VERDE** A Voz de Sao Vincente 1926-2010 PT, ID, light mx. Active again, 2 short and a long time pip, notices, reports. Roland indicates that the signal from Sao Vincente is weaker than some time ago that he heard them. Nice catch Roland! (Schulze-FRG 7/29,31)
- 4000n **CAMEROON** R. Bafoussam 2004-2020 FR, ID, African folk mx. (Schulze-FRG 8/4,5)
- 4472 **BOLIVIA** R. Movima 0038-0050 SP, ID, CP mx (Schulze-FRG 7/16)
- 4600t **BOLIVIA** R. Perla Del Acre, Cobija 0225-0240 SP, LA mx at good lvl but hvy QRN. (Tuchscherer-WI 7/16) 2320-2333 (Schulze-FRG 7/13)
- 4649 **BOLIVIA** R. Santa Ana 0200-0221\* SP, SP ballads, Andean mx, ID and canned anmts at s/off. (Alexander-PA 7/16)
- 4777 **GABON** Rdiff TV Gabonaise 2253-2300\* FR, nx, ID, African folk mx, NA, s/off. (Schulze-FRG 7/15)
- 4790 **PERU** R. Atlantida 0900-0915 SP, NA, OM/YL greeting, IDs, squeaky rooster sounds and mx. Fair (Bobb-MN 7/21)
- 4799.8 **GUATEMALA** R. Buenas Nuevas 0120 Tlk by OM in Indian lang. 3 ID's within 1 min all read slowly. SIO333 (Johnson-GA 7/27)
- 4810 **SOUTH AFRICA** R. Orion 0029-0104 EG/AK, tlk on gardening, pop mx. TC. Fair-good. (Bobb-MN 7/17)
- 4810n **SOUTHWEST AFRICA (NAMIBIA)** SWABC 2150-2200 EG ID, Afr. pgm, oldies, 6 time pips, mx, ID. (Schulze-FRG 7/15)
- 4815 **BURKINA FASO** R. Burkina 2350-0001\* FR, highlife mx, "Ici Ouagadougou" ID @ 2358, NA, s/off. Fair (Kohlbreunner-PA 8/6)
- 4820 **ECUADOR** R. Paz y Bien 1018-1045 SP, Andean mx, TCs, Fair then fade out. (Bobb-MN 7/10)
- 4820 **HONDURAS** La Voz Evangelica 0320- EG, Religious pgm, mx. Fair (Kohlbreunner-PA 7/24)
- 4825 **BRAZIL** R. Educadora 0835-0905 PT, OM/YL tlk w/ mention of Para and Braganca. Fair/noisy. (Bobb-MN 7/24)
- 4825 **BRAZIL** R. Cancao Nova 0049-0109 PT, YL tlk/interview, mx, ID. Fair (Bobb-MN 7/22)
- 4830 **BOTSWANA** R. Botswana 0355-0405 Barnyard IS, tlk in vern, EG s/on anmts @ 0401 then back to vern. Poor mixing w/Tachira. Best after 0359 when Venez. s/off. (Alexander-PA 7/22)
- 4850 **CAMEROON** CRTV Yaounde 2344-0003\* FR/EG, variety of mx, tlk in FR, IDs in FR/EG, NA. Fair (Bobb-MN 7/21,22) (Johnson-GA 8/3)
- 4862.5y **ZAIRE** R. Bakavu 1742-1805 Vern, FR ID, tlk, African folk mx. (Schulze-FRG 7/29)

- 4865 COLOMBIA LV del Cinaruco 0815-0830 SP, mx, info, IDs. Fair, noisy (Bobb-MN 7/24) 0305-0445+ (Jordan-PA 7/21)
- 4880 SOUTH AFRICA Radio 5 0436-0445 EG, birthday request mx. (Tuchscherer-W17/26)
- 4895 COLUMBIA LV del Rio Arauca 0140-0303\* SP, Olympic Games theme, lively tlc, ads, jingles, FC's, IDs. Fair (Jordan-PA 7/21)

Greetings. Thanks for your contributions. I thought you might like to see an excerpt from a very good special publication available from the Ontario DX Association. This 7 page publication by Cedric Marshall is called Introduction To The Tropical Bands and is available for \$1 post-paid from ODXA, Box 161, Stn. 'A', Willowdale, Ontario M2N 5S8. Newcomers to the Tropical Bands will find this very informative. With the static levels coming down, the juices should be flowing for some good DX'ing. Please write and let others know what you are hearing. Till next month, 73 - Bob KW3F, CompuServe 74756,1557

---

## WHEN TO LISTEN

Taking into account the various factors that affect tropical band reception, it is possible to prepare a summary of the most worthwhile times during which an Ontario listener may try for stations in certain geographical areas. (Listeners in other regions should make adjustments based on their own location and hours of darkness.) The following applies mainly to the 60 and 90 metre bands, which have the greatest variety of stations. Bear in mind that 60 metre openings are usually longer than the equivalent openings on 90 metres. (In general, the lower the frequency, the shorter the opening.) All times are Greenwich Mean Time.

### AFRICA

- (East) Mid-winter: from 2000 or sometimes earlier until sign-off. Spring and Summer: on quiet nights, from sign-on (0300 or thereabouts) for about an hour.
- (West) Consistent all year, starting about an hour before Ontario sunset, until sign-off or total darkness, whichever is first. Also at night (not so good in summer because of noise) from sign-on until shortly after station's dawn. Sometimes excellent in mid-winter around 2100.

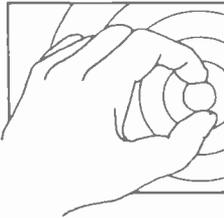
### ASIA

- (Central) Occasionally in mid-winter in the late afternoon and early evening. Throughout the year, occasionally later in the evening from sign-on to shortly after the station's dawn. Often in the morning after though not consistent, but sometimes to 1400 or later.
- (SouthEast) Throughout fall, winter and spring from dawn until about an hour after sunrise. Sometimes opening is longer in good conditions. Best in September-October and March-April, around the equinoxes. Quite often in mid-winter on 60 metres from sign-on (usually 2130- 2230) until station's dawn; best at this time during active conditions; this window often closes abruptly.

**OCEANIA** Throughout fall winter and spring, starting shortly before station's sunset, but usually best at sign-off or Ontario sunrise, whichever is first. Can be as early as 0630 for easterly stations, but rarely useable until later. Often good around equinoxes. Only stronger stations regular in summer: bands are too noisy to detect weak signals.

**S. AMER.** From dusk to sign-off and sign-on to dawn at any time of year. Some stations are audible all night. Usually bands are quieter and signals stronger in the early morning. Excellent reception of stations directly to the south at dawn around equinoxes. Occasional deep S. American openings shortly after sunset in summer when noise level permits. Occasional good Andean openings on spring and summer evenings when noise level permits.

© Copyright 1981 by The Ontario DX Association.



# LOG REPORT

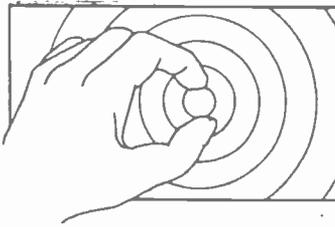
## section B

4900 to 6199 kHz

Editor: Sheryl Paszkiewicz, 1015 Green St., Manitowoc, WI 54220-6231

- 4905 BRAZIL, R. Relogio Federal, 7/6, 2350-0015 w/"A Voz do Brasil" pgm //5035, 6030. 0000 ID, TP, nx (D'Angelo-PA)
- 4910 ZAMBIA, R. Zambia, 7/29, 0406-0417 w/nx, brief IS, EG ID, TLK in vern, ment. Luanda. SIO=252. (D'Angelo-PA)
- 4911y HONDURAS, LV de la Mosquitia, 8/02, 0135-0220 w/folk mx, tlk, EG hymn, Bible pgm, speech. (Jordan-PA)
- 4915 BRAZIL, R. Anhanguera, 7/10-19, 2300-0130 w/sports dominating weekdays, mx w/sports reports weekend. (Jordan-PA)
- 4935 BRAZIL, R. Capixaba, 7/18, 2358-0035 w/drama to 0020 ad string, ID 0021 btwn ads, tlk, 0030 ID, nx. (D'Angelo-PA)
- 4945 SOUTH AFRICA, R. RSA, 7/8, 2018-2100 in lang, ID, Afr. pops IS, s/off. (Jchulze-FRG)
- 4960 ECUADOR, R. Federacion, 7/21, 0037-0103\* in lang/SP, LA vcls, instls, some tlk, s/off abt 0100 & march mx (D'Angelo)
- 4965t BRAZIL, R. Alvorada, 7/6, 0918-0940 w/tlk, mx, funny accordion playing, fair & fading. (Bobb-MN)
- 5003.7t RIO MUNI, RN Guinea Ecuatorial Bata, regional mx, anthem 2158, s/off 2201 on 7/22 (Field-PA) Congrats on the baby!-sp
- 5015 BRAZIL, R. Pioneira, 7/28, 2350 ad, quick TC/ID, more ads & messages (Sheedy-TOBAGO)
- 5015 CLANDESTINE, R. Truth, 7/22, 0439-0502\* in EG w/nx abt South Africa, 0445 march mx, cmtry abt Zimbabwe govt, 0501 s/off anmts, ID, bird IS, SIO=232. (D'Angelo-PA)
- 5019.9 COLOMBIA, Ecos del Atrato, 7/22, 0310-0359\* w/Caracol anmts, ads, jingles, ID, nx, s/off w/NA. (Alexander-PA)
- 5020p SOLOMON ISLANDS, SIBC, 7/15, 1002 in EG w/tlk by M w/Dutch accent, MOR mx, more tlk, SIO=2+32+ (Frodge-MI)
- 5025 CUBA, R. Rebelde, 7/16, 0029-0040 w/Cuban NA, Star Spangled Banner, sports event, F-G. (Bobb-MN)
- 5030 ECUADOR, R. Catolica Nacional, 7/26, 0105 w/IDs, rel pgm, Impacto on 5044. SIO=333. (Johnson-GA) 7/28, 0115-0130 w/tlks, ID, rel refs, heroic rel orch, celeste mx, nothing hrd 0150-0205, fair. (Jordan-PA) 0142-0205 w/concert mx, IDs, tlk & hymn. (Tuchscherer-WI) 0220-0255\* on 7/22 w/EZL instls, ID, s/off anmts, NA. (Alexander-PA)
- 5030.5t PERU, R. Los Andes, 8/4, 0050 noted w/no Impacto or Catolica Great mx, M anmts, echo IDs but couldn't get solid ID. SIO=322. (Johnson-GA) 7/6, 0947-1002 w/mx, ment. Huama-chuco, Coca-Cola, rooster crow, good. (Bobb-MN)
- 5035 CENTRAL AFRICAN REPUBLIC, R. Centrafrique, 7/22, hili'e mx, good sig, 2258 ID, NA to 2300\* (Field-PA)
- 5040 ECUADOR, LV del Upano, 7/6, 0240-0305\* w/soft instls, continuous to 0255 ID, s/off anmt, NA-instl & vcl. SIO=343. (D'Angelo-PA)
- 5045 BRAZIL, R. Cultura do Para, 7/28, 0856-0916 w/ID 0900, mx, tlk by M&W, fair. (Bobb-MN)
- 5049.8 ECUADOR, R. Jesus del Gran Poder, 7/16, 0040-0100\* w/lite instls, little tlk, ID, s/off w/NA. (Alexander-PA)
- 5055 FRENCH GUIANA, RFO Cayenne, 7/13, 0240 w/lively pop mx, good sig w/no TIFC. R. France IDs but no ment Cayenne. 0300 mx, ment Sudan, best sig ever. SIO=333. (Johnson-GA)
- 5058.8 ECUADOR, R. Nacional Progreso, 7/29, 0230 w/lots of mx, ID just before 0245\* SIO=333. (Johnson-GA)
- 5660.6t PERU, LV de Cutervo, 7/23, 0255-0305\* w/OA mx, ballads, anmts, tent ID (Alexander-PA)
- 5900 ISRAEL, HC Program D, 7/15, 1805-1856, AR w/mx to 1855, ID ute QRM (Dillon-GREECE)

- 5930 CZECHOSLOVAKIA, R. Prague, 7/24, 0304-0312 in EG w/intl & national nx, ID, F-G. (Bobb-MN)
- 5945 AUSTRIA, R. Austria Intl, 7/15, 1750-1805 in GM w/pop mx, ID in sev langs, sked, clx mx, 1800 nx. (Dillon-GREECE)
- 5950 USA, VOPC via WYFR, 7/21, 0210 in EG w/cmtry on scholars, Chinese legend, melodies, SIO=444. (Levison-PA)
- 5950 YEMEN, R. Sana'a, 7/15, 1735-1750 in AR w/mx, ID "Itha'atu ul-'arabiyah al-yamaniyyah min Sana'a, OM anncr, poss nf. (Dillon-GREECE)
- 5955 PHILIPPINES, VOA relay, 7/6, 1505 in CH w/tlk by W under Jammer, very poor. (Park-HI)
- 5960 CANADA, RCI, 7/30, 0000-0029 in EG w/nx, SWL Digest, fair (Bobb-MN)
- 5975 COLOMBIA, R. Macarena, 7/15, 0952 w/"Todelar en Colombia, la otra radio, Radio Macarena," cumbias to 0955 ID, SIO=333+ (Frodge-MI)
- 5995 AUSTRALIA, R. Australia, 7/15, 0940 in EG w/feature on early radios //9580, SIO=333. (Frodge-MI)
- 6005 WEST BERLIN, RIAS, 7/30, 2305-2331 w/lite piano mx, W anncr "Hier ist RIAS" 2330. HIC 212 (Sheedy-TOBAGO) Good for you!
- 6015 COTE D'IVOIRE, Abidjan, 7/13, 2337-0000\* in FR w/tlk & tilting mx //7215, F-G. (Bobb-MN)
- 6020 BONAIRE, R. Nederland, 7/14, 0941 in lang w/mx & cmnts, mx featured drums & strings. SIO=444. (Levison-PA)
- 6025 BIAFRA, FRON Enugu, 7/6, 2244-2310\* in EG w/continuous Afr vcls by group, ID & 3+1 TP, ID & nx, 2303 prayer, s/off anmts, pledge & choral anthem. SIO=1+41+ (D'Angelo-PA)
- 6025 PARAGUAY, R. Nacional, 7/23, \*0837 fair //9735 w/PSAs, promos, accordion mx, 7/26 0803 w/clean ID at poss. s/on. (Sheedy-TOBAGO)
- 6030 OMAN, BBC relay, 7/15, 1645-1705 in AR w/mx, OM anncr, YL w/world nx //7140 Cyprus. (Dillon-GREECE)
- 6050 CYPRUS, BBC relay, 7/15, 1720-1735 in Serbo-Croate w/sports nx, ID, world nx, target Yugoslavia. (Dillon-GREECE)
- 6050 NIGERIA, FRON Ibadan, 7/21, 2253-2306\* in EG w/Afr tribal vcls to 2359 ID, pgm previews, TC & ID, nx, anthem. SIO=242. (D'Angelo-PA) 7/21, tribal mx, 2259 ID, FC, IDs, anthem, s/off. 7/23 w/"Lemon Tree" 2258, nx, NA, s/off. (Field-PA)
- 6060 AUSTRALIA, R. Australia, 7/24, 1645 in EG w/sports nx, QRM USSR feeder 6067. (Park-HI)
- 6080 BRAZIL, R. Anhanguera, 7/16, 0704-0715 w/ID, ballads, anmts //4915, both weak. (Alexander-PA)
- 6100 NICARAGUA, LV de Nicaragua, 8/4, 0005 under DW. DW anncr took a breath & I caught ID. Short tlk, vcls. Slight improvement w/dusk in Nic. EG ID 0026. SIO=222. (Johnson-GA)
- 6134.7 BOLIVIA, R. Santa Cruz, 7/18, 1010 w/tlk, ID & also ment R. Santa Maria, rustic mx, SIO=322. (Johnson-GA)
- 6134.8 CHILE, R. Univ. de Concepcion, 7/25-8/1, 0954-1108+ w/school lessons, garbled ID 1100 w/Aparecida QRM, better ID on 8/1 at 1028. (Sheedy-TOBAGO) Also abt 1115-1140 in Calif. w/lcl TC, ment "en Minería" //9750 but R. Univ. de Concepcion ID hrd later. (Sheedy-CA)
- 6155 BOLIVIA, R. Fides, 7/27, 0149 w/guitar, anmts by M&W. //4845.2. (Johnson-GA)
- 6160 ANTIGUA, DW relay, 7/24, \*0856 in EG w/IS, ID for Carib-bean relay. (Kremer-IN)
- 6160 CANADA, CBC Vancouver (CKZU), 7/15, 0755-0806 w/song, ID 0759, pop mx, fair but noisy. (Bobb-MN)
- 6160 COSTA RICA, R. Impacto, 7/22, 0205 w/pops, ballads //5044. (Alexander-PA)
- 6160 NEWFOUNDLAND, CKZN, 7/23, \*0830 loud w/anmt, list CBC stns, nx (Sheedy-TOBAGO)
- 6165 BONAIRE, R. Nederland, 7/28, 0028 EG ID, FC, nx, Media Netwk (Bobb-MN)



# LOG REPORT

## section D

### 11700 and above

Editor: Wallace C. Treibel, 357 N.E. 149 St., Seattle, WA 98155

- 11700 GUAM KSDA Adv. World R. in Mandarin 0858, EG ID, relig mx, f (Sampson WI 7/7)  
11705 ANTIGUA D. Welle relay in EG 0505, "Newsline Cologne", f (Park HI 8/1)  
11710 ARGENTINA RAE in EG 0425, lots of mx, request QSL rpts, ID's, p (Price VA 7/19)  
11745 BRAZIL R. Bras in EG 0200, nx, pop mx, g (Price VA 7/30) in EG 0200, ID, skeds, cmntry on scandal in the "Cavelcade Foundation" (Kohlbrenner PA 7/9)  
11760 COOK IS. RCI in EG 0655-0710, relig pgm, distorted audio, ID (Robertson CA 7/9)  
11805 GUAM KTWR Trans World R. in EG 0958, relig pgms (Kremer IN 7/17) in EG 1000, tlk re resurrection of Christ, bcst from "studio in Melbourne" (Johnson GA 7/10)  
11810 IRAQ R. Baghdad in EG 0142, Mideast mx, ID, nx re hostages (Cichorek NJ 8/2)  
11835 SRI LANKA SLBC in EG 1109, oldie recordings, ID, freqs, f (Cichorek NJ 8/1)  
11855 CANADA RCI in EG 1230, North country xmsn, nx, SWL Digest, exc (Price VA 7/18)  
11920 PHILIPPINE IS. VOA relay in EG 1654, "Nightline Africa", nx, f (Park HI 7/10)  
11940 LESOTHO BBC relay in EG 1608, "News About Britain", "Focus on Africa" (Park HI)  
11945 IRAQ R. Baghdad in EG 0257, vocal & inst AR mx, ID, nx (Tuchscherer WI 7/18)  
12085 SYRIA R. Damascus in AR 1615, ID, Palestine bcst from Damascus (Dillon GREECE)  
12095 UNITED KINGDOM BBC London in EG 0030, pgm re Apollo 11, exc (Price VA 7/19)  
13605nf UNITED ARAB EMIRATES Abu Dhabi in EG \*2200, Holy Koran, feature (Kremer IN 7/3)  
13685 SWITZERLAND SRI In EG/Esperanto 1515, IS, ID, mx, g (Dillon GREECE 7/8)  
13690nf EAST GERMANY RBI in FR 1500, IS, ID, nx, steel band mx (Dillon GREECE 7/8)  
13700 NETHERLANDS RNW in EG 0434, "Sunday Spotlight", nx, p (Park HI 7/30)  
13740nf USA VOA Greenville (p) in SP 0130, mx, ID, tlk, g (Jordan PA 7/31) Note: Does anyone know for sure if this is a U.S. site or a relay elsewhere? Apparently VOA has stopped making general distribution of their frequency grids.  
13780 WEST GERMANY D. Welle in GM 1355, "Panorama" pgm, IS, ID, sked, nx (Dillon 7/8)  
15010v VIETNAM VOV in EG 2039, nx, VT vocals, into IN 1030, //10060 (Frodge MI 7/15)  
15020nf INDIA AIR in HD? 1425, S Asian mx, tough ID 1440 "Yeh All India Radio Pata...." nx, chants, overmod, soft propellar noise in back, f (Park HI, Robertson CA)  
ED note: Nice DX'ing, fellows. I've heard this one several mornings at this QTH and had not been able to ID. Seem to sign off at 1500 after 10 min. of chants.  
15043nf SCOTLAND Weekend Music R. in EG 0142, DX pgm, mx, many ID's, address, p (Kohlbrenner PA 7/23) in EG 0100 w/Rolling Stones mx, wx, p (Johnson GA 7/23)  
15084 IRAN VOIRI in Farsi 0850, Qur'an recitation, ID 0900, f (Dillon GREECE 7/15)  
15095 SYRIA R. Damascus in EG 2020-2103\*, slow ME vocals, ID's, tlks, nx, cmntry, NA, (Jordan PA 8/2) in AR 1350, AR mx, reverb mike, drama, //12085 (Dillon GREECE)  
15110 CHINA R. Beijing in EG 2015, cmntry on unrest in China, CH mx (Kohlbrenner PA)  
15150nf MADAGASCAR R. Nederlands relay in EG 1452, "Media Network", f-g (Park HI 7/20)  
15150 CANADA RCI in EG 2132, nx, "SWLers Digest", p (Park HI 7/1)  
15160 NO. KOREA R. Pyongyang in EG 0803, entire sked, preview & nx, p (Park HI 7/30)  
15250 SRI LANKA VOA relay in EG 0116, pop mx, dialogue, IS, nx (Tuchscherer WI 7/15)  
15260 ASCENSION IS. BBC relay in EG 0045, "Ornibus" re Apollo 11, f (Park HI 7/18)  
15290nf BULGARIA R. Sofia in EG 0302, nx, rock mx, cmntry, f-g (Sampson WI 7/22) in EG 2030, nx, reports, lifestyle feature, g (Price VA 7/11)  
15295 MALAYSIA WOM in CH \*1028, IS, ID, mx bridge, CH vocals, discussion, 2 pips 1100 into nx (D'Angelo PA 7/14) in CH 1017, vocals in EG, ID, p (Johnson GA 8/1) in CH 1026 preceded by pop mx to 1024 & 2 min dead air, //11885 (Field PA 7/16)  
15325 NORWAY RNI in EG 1200, nx, cmntry, QRM from IS another sta 1224 (Sampson WI)  
15330 PHILIPPINE IS VOA relay in PT 1816, contemporary Christian mx, nx (Park HI 7/23)  
15350 LUXEMBOURG RTL in FR 0400, commercial type format, lite pops, nx, ID (Park 7/20)  
15380 ROMANIA R. Bucharest in EG 0220, cultural survey, g (Price VA 7/30)  
15435 UNITED ARAB EMIRATES R. Dubai in EG 0330, nx, arts & crafts, g (Price 7/18)  
15485nf NEW ZEALAND RNZ in EG/Maori 0430, US pop mx, nx w/repeat in Maori (Jordan PA)  
ED note: According to my long-range log register RNZ used this freq from 81-85.  
15510nf AFGHANISTAN R Afghan in EG 1847, local mx, ID, nx 1900 (Tuchscherer WI 7/10)  
15525 SWITZERLAND SRI in EG 2115, "Dateline" w/Paul Sufrin, g (Price VA 7/19)  
15555 UNITED ARAB EMIRATES R. Dubai in AR/EG 0235-0400\*, prayers, Mideast instrum's, tlks, interviews, into EG 0300, nx, //15435, 17890, g (Jordan PA 7/22) in AR? 1950, continuous drum beating, chanting (Levison PA 7/4)  
15560 EGYPT Iran's Flag of Freedom Radio in multi-lang 0330, ID, IS, anthem of sorts followed by tlk & mx, f (Johnson GA 7/21)  
15650 EGYPT R. Iran(p) in AR 0310, passionate speech, p (Cichorek NJ 8/2)  
15767nf ICELAND ISBS in IC 1852-1930\*, nx, chimes, off w/mx bridge (Alexander PA 7/16)

17575 MADAGASCAR R. Nederlands relay in EG 1453, "Asia Scan", CH circus, nx (Park HI)  
 17610 TUNISIA RTT in AR 0420, chatty discussion, AR mx, phone patch (Jordan PA 7/19)  
 17660 PAKISTAN RP in EG \*0230-0245\*, IS, ID, slow speed nx (Kremer IN 7/24)  
 17710nf SYRIA R. Damascus in EG \*2008, nx, "Pan Arabic Literature", AR mx (Kremer 7/14)  
 In EG/lang? 1950-2200\*, AR mx, NA at s/off, strong sig (Robertson CA 7/19)  
 17715 AUSTRALIA RA in EG 0515, mx sels, sports update, nx, p (Jordan PA 7/20)  
 17725 PORTUGAL R. Free Europe in BG 1745, opera mx, ID, nx, f (Sampson WI 7/29)  
 17770nf WEST GERMANY D. Welle in EG 0226-0250\*, "Morning Magazine" (Tuchscherer WI 7/31)  
 17830 SINGAPORE BBC relay in EG 0935, financial nx, "Sports Roundup", g (Park HI 7/29)  
 17830 GREECE VOA relay in Parsi 0350, tlk, Mideast mx, ID, nx (Tuchscherer WI 7/26)  
 17850 KUWAIT R. Kuwait (p) in AR 0403, Mideast mx, nx briefs?, no ID (Jordan PA 7/19)  
 17860 RWANDA D. Welle relay in GM 0240-0250\*, classical mx, ID (Tuchscherer WI 8/2)  
 17870 LIBERIA VOA relay Monrovia in EG 1642, nx, pop mx (Tuchscherer 8/2) in EG 2032  
 "Nightline Africa", ID, sports (Cichorek NJ 7/31)  
 17880 SWEDEN RS in EG 1531, "Sweden Today", equality for men, g (Sampson WI 7/23)  
 21470 CYPRUS BBC relay in EG 1725, "The Ken Bruce Show", f-p (Park HI 7/29)  
 21485 VATICAN STATE VR in PT 1132, ment of Pope, sked, ID, IS (Dillon GREECE 7/2)  
 21490nf PAKISTAN RP in Urdu 0144, Holy Qur'an pgm, p (Robertson CA 7/30)  
 21505nf SAUDI ARABIA BSKSA in AR 1355, speeches, AR mx, ID, interviews (Dillon 7/2)  
 21510 WEST GERMANY R. Liberty in Kazakh 1430, ID, world nx, f (Dillon 7/2)  
 21525nf AUSTRALIA RA in EG 0150, country mx, //21740, g (Frodge MI 7/11) in EG 0730,  
 "Communicator", tlks on digital audio tape, radio in Sarawak, f (Park HI 8/6)  
 21555nf SPAIN REE in SP 0146-0157\*, tlk, mx bridge, ID, nx (Tuchscherer WI 8/2)  
 21590 SOUTH AFRICA RSA in DT 0932, rpt about a Dr. Markihall, f (Park HI 7/29)  
 21685 NETHERLANDS ANTILLES RN relay Bonaire in EG 1917, "Media Echoes" (Frodge MI)  
 21740nf AUSTRALIA RA in EG 0144, "International Report", mx, g (Frodge MI 7/11)  
 25944nf COSTA RICA RFPI in EG 2245, "UN Caribbean Magazine" (Kohlbrenner PA 7/12)

\*\*\*\*\*  
 There's room for USSR loggings, so I'll list them as a group in frequency order below:

12000 R. Kiev in EG 0210, "Open Studio", g (Price VA, Levison PA)  
 13660 R. Moscow in FR 1530, classical mx, ID (Dillon GREECE)  
 13670 R. Rodina in RS 0150, tlks, mx, ID, IS (Jordan PA)  
 13710 R. Moscow in EG 1445, RS opera translated into EG, ID (Dillon GREECE)  
 13735 R. Moscow in RS 1410, no program details, f (Robertson CA)  
 21585 R. Moscow in EG 0003, nx of Gorbachev visit to France (Johnson GA)  
 21625 R. Moscow in EG 0430, nx, mx from top 5 albums in USSR (Park HI)  
 21630 R. Moscow in EG 1720, "The Soviet Union Under Restructuring" (Park HI)  
 21630 R. Moscow in EG 1924, feature on the Soviet republics (Frodge MI)  
 21690 R. Moscow in EG 0300, nx, excerpts from Gorbachev speech (Jordan PA)  
 21820 R. Moscow in RS 0722, mx pgm, possible nx (Park HI)

## PRESS RELEASE

IT'S BACK!! YES!! **BLANDH**, the summer DH bulletin parody is back with an all-new fourth edition! It's the DH tradition that cures the summer DH doldrums. As readers of past editions put it: "Really enjoyed it." "Loved the whole thing!" "Won't miss it for anything!" "Deliciously low standards". "A lot of fun." "BLANDH is the only publication of any kind which I am moving in its entirety when we move..." "Outright ridiculous lies and false statements." "Quite funny!" "Look forward to the current issue." Available for \$2.00 postpaid in North America, \$3.00 or 8 IRCs elsewhere from: Don Moore; c/o I.E.P. Bishop 3000; Ferris State University; Big Rapids, Michigan, 49307, USA. Checks payable to Don Moore.

A NASWA EXCLUSIVE

20:15:25 8/25/1989

-----  
Thomas R. Sundstrom | Telex: 6502446376MCI UW  
PO Box 2275 | MCI Mail: 244-6376  
Vincetown | Prodigy: DRVB19A  
NJ 08088-2275 | CompuServe: (send via MCI Mail)  
Voice: 609-859-2447 | Packet Radio: W2XQ @ WB2MNF  
Fax: 609-859-3226 | Pinelands RBBS: 609-859-1910  
-----

Thanks to Kris Field for schedules from Greece, Iran, RFPI and Poland. The Greek and Polish schedules filled in target areas and missing broadcasts.

R Tirana announces its schedule AND frequencies in kHz at the conclusion of its 30 minutes English transmissions. Using that data, I was able to validate or correct information carried in the files. R Sofia uses 15330, replacing 15110, in English transmissions at 2030, 2130, and 2300 UT. (At 20-21 UT, Beijing to Eu v Mali on 15110 is now quite easy to listen to in ENA.) At 2030 to Eu, 15330 and 15290 are excellent in ENA (11720 and 11660 remain in parallel). At 2130 to W Eu, 15330 is excellent in ENA but 11660 although audible is covered by R Nederland in Dutch. At 2300 UT to NA, parallel 11660 is unchanged. Speaking of R Nederland, the 2050 UT service to Africa provides a good signal on 15560 and 9860 -- catch Media Network before dinner. The new fall Israel Broadcasting Authority schedule will be announced during airings of "DX Corner" Sunday 8/27 and Monday 8/28, two days after deadline. Look for the current information on Pinelands RBBS. Radio Polonia airs a DX show on Tuesdays; I hear it well at 2330 on 7270. On August 22, the announcers replied to Kris Field's comments that the best signal he could hear Polonia was during the day. The full list of times (estimated except for 2330) is in the accompanying list. R Sweden at 01 UT, now on 17800 (ex-17790) and 15390 to As/Pac. At 2100 to Eu/Af, 9655 provides a decent and clear signal here in ENA and 11705 is stronger but has co-channel interference. If you are home from school or work early enough, here is a chance to get an early release of SCDX on Tuesday. The Voice of Turkey to Europe uses 9795 kHz, replacing 9825 at 2000-2050 UT and 9685 at 2200-2250 UT. Other frequencies, no change from the start of the J89 season. I can't validate the 2200 frequency as RTF/France uses both 9790 and 9800 with French to NA at this time; I would imagine reception of Ankara in Europe would be rather poor. If I interpret what Glenn was saying correctly, there is a new time for World of Radio on Friday at 0030 UT on 7355 kHz.

=====  
PC Software for PC/XT/AT/PS2 and compatibles: English Language SWBC Schedules, with a new feature of loading frequencies into the memories of the JRC NRD-525 and the Kenwood R-5000 from the computer. ASCII text file subscriptions for those without a PC compatible. Receiver computer control programs for the NRD-525 and R-5000. Utility Logbook for logging utility stations. For more information send a business-sized SASE to TRS Consultants (address above) or download information from the Pinelands RBBS.

Compiled by Ithoas R. Sundstrom, W2TU

Start End Time (UTC)	Time (UTC)	Country	Station	Freq 81	Freq 82	Freq 83	Freq 84	Freq 85	Freq 86	Freq 87	Freq 88	Target Area	Notes	Record Last Updated
0000	0030	Norway	R Norway	15165								SA	Eng Mon only	08/17/89
0100	0130	Sweden	R Sweden	17800	15390							As/Pac		08/21/89
0130	0138	Greece	V of Greece	11645	9420	9395						NA/Sweden	News/Eng ex Su	08/15/89
0200	0300	Taiwan	V of Free China	15345	11860	11740	9765	9680	7445	5950		NA/Jap/As/CA/Aus/NZ	83,5,7 v WYFR	08/05/89
0230	0300	Albania	R Tirana	9500								NA		08/05/89
0300	0400	Taiwan	V of Free China	15345	11745	9765	9480	7445	5950			NA/Jap/As/Aus/NZ	84,6 v WYFR	08/05/89
0330	0400	Albania	R Tirana	9500								NA		08/05/89
0340	0348	Greece	V of Greece	9420	9395	7430						NA/Sweden	News/Eng ex Su	08/15/89
0500	0600	USA	WYFR	17640	15566	11580	5985					AI/Eu/NA	84 Network	08/06/89
0600	0630	Norway	R Norway	15165								Pac	Eng Sun only	08/17/89
0630	0700	Poland	R Poland	9675	7270							Eu/NA/NA	85 Network	08/06/89
0700	0800	Taiwan	V of Free China	17640	15566	13760	7355	5985				Eu		08/15/89
0800	0830	Norway	R Norway	9675	7270							NA	via WYFR	08/05/89
0840	0848	Greece	V of Greece	25730	15165							F East/Aus/NA/Pac	Eng Sun only	08/17/89
0900	0930	Norway	R Norway	17550	15625							Aus	News/Eng	08/15/89
1000	1100	USA	WYFR	21710								F East/Aus	Eng Sun only	08/17/89
1100	1130	Switzerland	Swiss R Int'l	5985								NA		08/06/89
1100	1500	USA	KUSU	21770	17830	15570	13635					SE As/Aus/NZ		07/29/89
1100	1300	USA	WYFR	9850								Canada	70 deg	07/30/89
1130	1225	Iran	R Tehran	11580	5985							NA		08/06/89
1130	1230	Thailand	R Thailand	11790	11715	9575	7215					S&SE As/NE/India		08/15/89
				11905	9653							SE As		07/29/89



Changes entered between 07/28/89 and 08/25/89.

ENGLISH LANGUAGE DX SHOWS: By Day of Week  
Compiled by Thomas R. Sundstrom, W2IQ

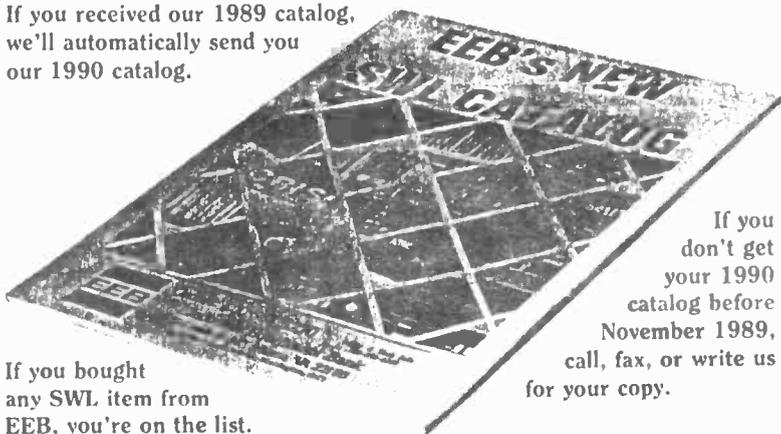
Shortwave DX Program	Show Time	Time	Testa Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record Last Updated
<b>** DAY OF THE WEEK: Sunday</b>														
DX Show	1545	1530	Czechoslovakia	R Prague	21505	17705	15155	15110	13715	11990	11685	Af/S As/Eu		08/13/89
<b>** DAY OF THE WEEK: Tuesday</b>														
DX Program	1605	1600	Poland	R Poland	9540	6135						Eu		08/19/89
DX Program	2235	2230	Poland	R Poland	7270	7125	6135	5995				Eu		08/19/89
DX Program	2330	2305	Poland	R Poland	7270	7125	6135	5995				Eu		08/22/89
<b>** DAY OF THE WEEK: Wednesday</b>														
DX Program	0635	0630	Poland	R Poland	9675	7270						Eu		08/19/89
DX Program	1435	1430	Poland	R Poland	11815	9540	6135					Eu		08/19/89
DX Program	1835	1830	Poland	R Poland	11840	9525	7285	7125	6135	5995		Af/Eu		08/19/89
<b>** DAY OF THE WEEK: Friday</b>														
World of Radio	0030	0000	USA	WRMO	7355							NA/CA		08/24/89
<b>** DAY OF THE WEEK: Saturday</b>														
Amateur Radio Spectr	1445	1400	South Africa	Radio RSA	25790	21590	21535	11925				UK/Eu/Af/NA/NE		07/29/89



**THE NATION'S LARGEST  
SHORT WAVE RADIO DEALER**

**Chances are you're already on our mailing list  
for the new 1990 catalog**

If you received our 1989 catalog,  
we'll automatically send you  
our 1990 catalog.



If you bought  
any SWL item from  
EEB, you're on the list.

If you  
don't get  
your 1990  
catalog before  
November 1989,  
call, fax, or write us  
for your copy.

- Forty pages packed with exciting items for the short wave listener
- We list more than 40 receivers, priced from \$50 to \$5000. Our catalog includes photos, specs, and prices.
- Over 100 accessories—antennas, filters, wire and cable, switches, rotors, towers, speakers, headsets, converters, clocks, recorders
- More than 50 different SWL books
- Computer radio control and demodulator

Our catalog is sent free in the USA. Send \$1 for mailing to Canada. Send \$3 (US) for AIRMAIL shipment everywhere else.



**ELECTRONIC EQUIPMENT BANK**

**New Retail Location**  
Phone: 703-938-3381  
137 Church Street, N.W.  
Vienna, VA 22180

**Local and Technical:**  
703-938-3350  
Fax: 703-938-6911

**Mail and Phone Orders**  
Phone: 800-368-3270  
516 Mill Street, N.E.  
Vienna, VA 22180

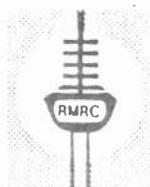
Prices subject to change • Shipping not included • Sorry, no CODs • Returns subject to 20% restocking fee

Der Club  
für Radio-Hören  
rund um den Globus

# RMRC

## RHEIN-MAIN-RADIO-CLUB

---



RHEIN-MAIN-RADIO-CLUB

WITH DX-CONTEST U.S.S.R. 1989

For the 4th time, the Rhein-Main-Radio-Club (RMRC) in Germany will arrange a contest, this time called "Theme U.S.S.R."

This contest will take place from September 19th to September 30th 1989.

You should log at least 29 Russian domestic and foreign broadcasts, at at least 15 minutes duration each.  
The frequency spectrum goes from 153 KHz to 26.100 KHz.

In the part 2, special programmes from the U.R.R.S. have to be heard. You will get some details from us.

in part 3, special DX-programmes have to be heard, and it is important for us to have sufficient programme details.

Each station will have 1.000 points, and will be divided to those participants that heard the particular station.

The contestfee is 5 DM, or 5 U.S. Dollar or 5 IRC's, that have to be send to RMRC-Contest-Büro, Eberhard Ahl, Friedberger Landstr. 493, D-6000 Frankfurt/Main, West-Germany, where also all further details can be obtained.

For informations and the contest-sheet please send 1 IRC (2 IRC's for oversea) to our büro.

Many thanks.

R M R C

# PRESS RELEASE

## THE AERONAUTICAL COMMUNICATIONS HANDBOOK HF EDITION

By Robert E. Evans

Universal Radio Research has been assigned to distribute in the United States, an exciting new reference book on shortwave aeronautical listening.

The Aeronautical Communications Handbook (HF Edition) is an exhaustive and scholarly examination of the entire field of shortwave aircraft monitoring. This mammoth laser-quality book is extremely well organized and absolutely up-to-date. It has quickly become the unchallenged *standard* reference title on the subject.

THE  
**AERONAUTICAL**  
COMMUNICATIONS  
HANDBOOK  
H.F. EDITION



Robert E. Evans

UNIVERSAL RADIO RESEARCH

©1989 Robert E. Evans

170 Pages 8½ by 11"

Laser Quality - Spiral Bound

Price: \$19.95 (+\$1.00 shipping)

**Universal Radio**  
1280 Aida Drive  
Reynoldsburg, OH 43068  
Tel: 800 431-3939 or 614 866-4267

**NORTH AMERICAN SHORTWAVE ASSOCIATION**

45 Wildflower Road  
Levittown, Pennsylvania 19057

FIRST CLASS MAIL  
U.S. POSTAGE  
PAID  
Levittown, PA  
Permit No. 319

**FIRST CLASS MAIL**



**NASWA**

"UNITY AND FRIENDSHIP"

PUBLISHES **FRENDX** MONTHLY

**NASWA MEMBERSHIP FEES:**

First Class North America .....	\$18.00
Overseas - Surface Mail .....	\$18.00
Airmail to Central America, Caribbean, Venezuela and Colombia .....	\$25.00
Airmail to South America and Europe .....	\$27.00
Airmail to Asia, Africa and Pacific .....	\$30.00

All remittances must be in U.S. Funds and mailed to:  
**NASWA, 45 Wildflower Road, Levittown, PA 19057, U.S.A.**

Besides **FRENDX**, NASWA also publishes **DXtra** . . . a mid-month newsletter with the very latest DX news while it's still news. It is available only to NASWA members:

**DXtra**

**DXtra SUBSCRIPTION RATES PER YEAR:**

North America (First Class) .....	\$4.00
Overseas (Airmail) .....	\$6.00
Sample copies of <b>FRENDX</b> and <b>DXtra</b> are available for:	
North America .....	\$1.00
Overseas .....	\$2.00

**EXECUTIVE DIRECTOR** - R. Charles Rippeel, 1272 Parkside Pl., Virginia Beach, VA 23454  
**PUBLISHER & BUSINESS MANAGER** - Bill Oliver, 45 Wildflower Rd., Levittown, PA 19057  
**EASY LISTENING** - Alex Batman, 300 Hill St., Apt. 6, Boone, NC 28607  
**DXERS FORUM** - Rowland Archer, 5524 Hawthorne Park, Raleigh, NC 27613  
**TECHNICAL TOPICS** - Ted Benson, 14705-B Watsonville Rd., Morgan Hill, CA 95037  
**LISTENERS NOTEBOOK** - Bruce MacGibbon, 2295 Juniper Ave, Gresham, OR 97030  
**QSL REPORTS** - Sam Barto, 47 Prospect Place, Bristol, CT 06010  
**DXTRA** - Bob Hill, 15 Sirling St., Andover, MA 01810  
**DISTRIBUTING EDITOR** - Kris Field, 431 Babylon Rd., Ambler, PA 19002-2302  
**LOG REPORT A** - Bob Brown, P.O. Box 591, Colmar, PA 18915  
**LOG REPORT B** - Sheryl Paszkiewicz, 1015 Green St., Manitowoc, WI 54220  
**LOG REPORT C** - Jerry Ervine, P.O. Box 5204, Hidalgo, TX 78557  
**LOG REPORT D** - Wallace C. Treibel, 357 N.E. 149 St., Seattle, WA 98155  
**ENGLISH SCHEDULES** - Tom Sundstrom, P.O. Box 2275, Vincentown, NJ 08088  
**SCOREBOARD** - Jerry Lineback, 3959 Castle St., Douglasville, GA 30134  
**AWARDS PROGRAM** - John Kapinos, 86 S. Quinsigamond Ave., Shrewsbury, MA 01545  
**COUNTRY LIST** - Don Jensen, 5204 70th St., Kenosha, WI 53142